UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

AMENDMENT NO. 1 TO FORM S-1

REGISTRATION STATEMENT UNDER
THE SECURITIES ACT OF 1933

Oncobiologics, Inc. (Exact name of registrant as specified in its charter)

Delaware (State or other jurisdiction of incorporation or organization)

2836

(Primary Standard Industrial Classification Code Number)

38-3982704

7 Clarke Drive

Cranbury, New Jersey 08512 (609) 619-3990 (Address, including zip code, and telephone number, including area code, of registrant's principal executive offices)

Pankaj Mohan, Ph.D. Chairman, President and Chief Executive Officer Oncobiologics, Inc. 7 Clarke Drive Cranbury, New Jersey 08512 (609) 619-3990

(Name, address, including zip code, and telephone number, including area code, of agent for service)

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Approximate date o	f commencement of	proposed sale to	the public: As	soon as practicabl	le after the effective	date of this
Registration Statem	ent.					

regionation otatement			
If any of the securities being re Securities Act of 1933, check	J	to be offered on a delayed or continuous ba	asis pursuant to Rule 415 under the
•		ffering pursuant to Rule 462(b) under the S ber of the earlier effective registration state	,
	'	o Rule 462(c) under the Securities Act, cher r effective registration statement for the sar	ě .
	'	o Rule 462(d) under the Securities Act, che r effective registration statement for the sar	9
,	efinitions of "large accelera	accelerated filer, an accelerated filer, a non- ted filer," "accelerated filer" and "smaller re	•
Large accelerated filer \Box	Accelerated filer $\ \square$	Non-accelerated filer ⊠ (Do not check if a smaller reporting	Smaller reporting company $\ \square$

The Registrant hereby amends this Registration Statement on such date or dates as may be necessary to delay its effective date until the Registrant shall file a further amendment which specifically states that this Registration Statement shall thereafter become effective in accordance with Section 8(a) of the Securities Act of 1933, as amended, or until the Registration Statement shall become effective on such date as the Commission, acting pursuant to said Section 8(a), may determine.

company)

The information in this preliminary prospectus is not complete and may be changed. We may not sell these securities until the registration statement filed with the Securities and Exchange Commission is effective. This preliminary prospectus is not an offer to sell these securities and is not soliciting an offer to buy these securities in any jurisdiction where such offer or sale is not permitted.

SUBJECT TO COMPLETION, DATED FEBRUARY 12, 2016

PRELIMINARY PROSPECTUS

Shares



Common Stock

We are offering shares of common stock. This is our initial public offering and no public market currently exists for our common stock. We expect the initial public offering price to be between \$ and \$ per share. We have applied to list our common stock on the NASDAQ Global Market under the symbol "ONS."

We are an "emerging growth company" under the federal securities laws and will be subject to reduced public company reporting requirements for this prospectus and future fillings.

Investing in our common stock involves a high degree of risk. See "Risk Factors" beginning on page 11.

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or determined if this prospectus is truthful or complete. Any representation to the contrary is a criminal offense.

	PER SHARE	TOTAL
Public Offering Price	\$	\$
Underwriting Discounts and Commissions ⁽¹⁾	\$	\$
Proceeds to Oncobiologics, Inc. (Before Expenses)	\$	\$

 See "Underwriting" beginning on page <u>139</u> for additional disclosure regarding underwriting discounts, commissions and estimated offering expenses.

Delivery of the shares of common stock is expected to be made on or about , 2016. We have granted the underwriters an option for a period of 30 days to purchase an additional shares of our common stock. If the underwriters exercise the option in full, the total underwriting discounts and commissions payable by us will be \$, and the total proceeds to us, before expenses, will be \$

Joint Book-Running Managers

Jefferies

Barclays

Lead Manager

Cantor Fitzgerald & Co.

Preliminary Prospectus dated

, 2016

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We are responsible for the information contained in this prospectus and in any free-writing prospectus we prepare or authorize. We have not authorized anyone to provide you with different information, and we take no responsibility for any other information others may give you. We are not, and the underwriters are not, making an offer to sell these securities in any jurisdiction where the offer or sale is not permitted. You should not assume that the information contained in this prospectus is accurate as of any date other than the date on the cover of this prospectus.

Persons who come into possession of this prospectus and any applicable free writing prospectus in jurisdictions outside the United States are required to inform themselves about and to observe any restrictions as to this offering and the distribution of this prospectus and any such free writing prospectus applicable to that jurisdiction.

Our name "Oncobiologics," the Oncobiologics logo and other trademarks or service marks of Oncobiologics, Inc. appearing in this prospectus are the property of Oncobiologics, Inc. Other trademarks, service marks or trade names appearing in this prospectus are the property of their respective owners. We do not intend our use or display of other companies' trade names, trademarks or service marks to imply a relationship with, or endorsement or sponsorship of us by, these other companies.

Convenience translations between Swiss Francs, or CHF, and U.S. dollars provided herein are based on the noon buying rate in New York City for cable transfers in foreign currencies as certified for customs purposes by the Federal Reserve Bank of New York on December 31, 2015, or CHF 1.0017 = \$1.00. We do not represent that CHF were, could have been, or could be, converted into U.S. dollars at such rate or at any other rate.

PROSPECTUS SUMMARY

This summary highlights information contained elsewhere in this prospectus. This summary provides an overview of selected information and does not contain all of the information you should consider before investing in our common stock. You should read this entire prospectus carefully, especially the section titled "Risk Factors" and our consolidated financial statements and related notes included elsewhere in this prospectus, before making an investment decision. Except as otherwise indicated or unless the context otherwise requires, references to "company," "we," "us," "our" or "Oncobiologics," refer to Oncobiologics, Inc. and its consolidated subsidiary.

Overview

We are a clinical-stage biopharmaceutical company focused on identifying, developing, manufacturing and commercializing complex biosimilar therapeutics. Our current focus is on technically challenging and commercially attractive monoclonal antibodies, or mAbs, in the disease areas of immunology and oncology. A mAb is a type of protein that is produced by a single clone of cells or cell line and made to bind to a specific substance in the body. Our strategy is to cost-effectively develop these biosimilars on an accelerated timeline, which is fundamental to our success and we believe positions us to be a leading biosimilar company. We have leveraged our team's biopharmaceutical expertise to establish fully integrated in-house development and manufacturing capabilities, which we refer to as our BioSymphony Platform. We believe this platform addresses the numerous complex technical and regulatory challenges in developing and commercializing mAb biosimilars and was designed to provide significant pricing flexibility. Since inception, we have advanced two product candidates into clinical trials: ONS-3010, a Phase 3-ready biosimilar to adalimumab (Humira®), and ONS-1045, a Phase 3-ready biosimilar to bevacizumab (Avastin®). Additionally, we have identified multiple other biosimilar product candidates, including six that are in active preclinical development, one of which is expected to enter clinical trials in 2016.

Our BioSymphony Platform

Escalating healthcare costs and healthcare reform initiatives have been major drivers for the advancement of the biosimilar market. Our BioSymphony Platform is designed to address the technical challenges and regulatory dynamics of the complex biologics industry by developing high quality mAb biosimilars on an accelerated timeline and in an efficient and cost-effective manner. The BioSymphony Platform, driven by our entrepreneurial culture, leverages our fully integrated in-house 48,000 square foot development and manufacturing facility and our team's clinical and regulatory expertise. We believe this model enables significant pricing flexibility, providing us with competitive advantages, and positions us to be a leading biosimilar company.

Our Pipeline

We are currently developing a portfolio of eight commercially attractive mAb biosimilars, for which the corresponding reference products generated an aggregate of approximately \$35.3 billion in global revenue in 2014. We have also identified two mAb biosimilars for which we expect to initiate development by the end of 2016. Our current pipeline of mAb biosimilars for which we have completed clone selection is described in the following chart.



- According to recent filings with the Securities and Exchange Commission, where available, EvaluatePharma and manufacturers' reports.
- (2) We currently have an arrangement with Zhejiang Huahai Pharmaceutical Co., Ltd., or Huahai, for the co-development and joint commercialization of ONS-3010 in certain major developed markets, including the United States and EU. Assuming Huahai funds its proportionate share of development costs incurred after completion of the "Phase-3 Ready Package" for ONS-3010, we will have a 49% value ownership interest with Huahai having a 51% value ownership interest in ONS-3010.

ONS-3010 is our adalimumab (Humira) biosimilar. Humira is a subcutaneous injectable mAb that binds to tumor necrosis factor-alpha, or TNFα. We have successfully completed a randomized, double-blind, single-dose and single-center Phase 1 clinical trial comparing ONS-3010 to Humira in three treatment arms. This Phase 1 clinical trial was performed at the Center for Human Drug Research in Leiden, The Netherlands under the auspices of the Stichting Beoordeling Ethiek Biomedisch Onderzoek. In this trial, ONS-3010 met its primary and secondary endpoints, demonstrating a similar pharmacokinetic (meaning how the body affects the molecule), or PK, profile, as well as an immunogenicity profile equivalent to both U.S.- and E.U.-Humira across all three treatment arms. In addition, ONS-3010 demonstrated a rate of injection site reactions lower than that of Humira. We have received regulatory feedback and agreement on our Phase 3 clinical trial design in the sensitive plaque psoriasis patient population from the U.S. Food and Drug Administration, or FDA, the European Medical Agency, or EMA, and national agencies such as the Medicines and Healthcare Products Regulatory Agency, or MHRA, and the Swedish regulatory authority. We have also completed a site feasibility study to identify global sites (North and South America, Europe, Australia and New Zealand) in preparation for the commencement of our planned Phase 3 clinical trial in 2016.

Humira is currently approved in the United States for the following indications: rheumatoid arthritis, juvenile idiopathic arthritis, psoriatic arthritis, ankylosing spondylitis, adult crohn's disease, pediatric crohn's disease, ulcerative colitis, plaque psoriasis, and hidradenitis suppurativa. We initially intend to seek approval of ONS-3010 for the treatment of plaque psoriasis, and will seek to expand such approval to the same indications as Humira as appropriate. We have informed the regulatory authorities of our intent to seek extrapolation to all approved Humira indications, and have also discussed our interchangeability study design with the FDA. We intend to deliver ONS-3010 in the same manner as Humira, via subcutaneous injection.

■ ONS-1045 is our bevacizumab (Avastin) biosimilar. Avastin is a mAb administered by infusion that interferes with tumor growth by binding to vascular endothelial growth factor, or VEGF, a protein that stimulates the formation of new blood vessels. We have completed a randomized, double-blind, single-dose and single-center Phase 1 clinical trial. This Phase 1 trial was performed at the Center for Human Drug Research in Leiden, The Netherlands under the auspices of the Stichting Beoordeling Ethiek Biomedisch Onderzoek. In this trial, ONS-1045 met its primary and secondary endpoints demonstrating a similar PK profile, as well as an immunogenicity profile equivalent to both U.S.- and EU-Avastin. We have completed the next series of our regulatory interactions with the FDA, EMA, MHRA and the Danish Health and Medicines Agency to obtain further guidance on our confirmatory trial design and have gained agreement on the sensitive patient population in non-squamous non-small cell lung cancer. We have also begun preparatory planning with the intention to discuss our Japanese development strategy with Japan's Pharmaceuticals and Medical Devices Agency in 2016. Additionally, we have initiated a site feasibility study (targeting North and South America, Europe and Asia) in advance of our global Phase 3 clinical trial, which we expect to commence in 2016.

Avastin is currently approved in the United States for the following indications: metastatic colorectal cancer, with intravenous 5-fluorouracil-based chemotherapy for first- or second-line treatment; metastatic colorectal cancer, with fluoropyrimidine-, irinotecan- or fluoropyrimidine-oxaliplatin-based chemotherapy for second-line treatment in patients who have progressed on a first-line Avastin containing regimen; non-squamous non-small cell lung cancer, with carboplatin and paclitaxel for first line treatment of unresectable, locally advanced, recurrent or metastatic disease; glioblastoma, as a single agent for adult patients with progressive disease following prior therapy; metastatic renal cell carcinoma with interferon alfa; cervical cancer, in combination with paclitaxel and cisplatin or paclitaxel and topotecan in persistent, recurrent, or metastatic disease; platinum-resistant recurrent epithelial ovarian, fallopian tube or primary peritoneal cancer, in combination with paclitaxel, pegylated liposomal doxorubicin or topotecan. We initially intend to seek approval of ONS-1045 for the treatment of non-squamous non-small cell lung cancer, and will seek to expand such approval to the same indications as Avastin when appropriate. We have informed the regulatory authorities of our intent to seek extrapolation to all approved Avastin indications, and have also discussed our study design with the FDA. We intend to deliver ONS-1045 in the same manner as Avastin, via infusion.

 ONS-1050 is our trastuzumab (Herceptin) biosimilar. Herceptin is a mAb administered by infusion that binds to human epidermal growth factor receptor 2, or HER2. A clone with a "highly similar" profile to Herceptin has been chosen for further process development. Extensive analytical characterization and *in vitro* functionality studies comparing ONS-1050 to Herceptin are underway to support the biosimilarity assessment required to initiate clinical trials. We expect to commence our Phase 1 clinical trial in 2016. Herceptin currently approved in the United States for the following indications: treatment of HER2-overexpressing breast cancer and treatment of HER2-overexpressing metastatic gastric or gastroesophageal junction adenocarcinoma. We have not yet determined the indication for which we will initially seek approval of ONS-1050, although it will be for one of the indications for which Herceptin is approved. It is our intent to then seek to expand such approval to the same indications as Herceptin via extrapolation. We intend to deliver ONS-1050 in the same manner as Herceptin, via infusion.

- In addition to the product candidates we are currently advancing through clinical development, we are leveraging our BioSymphony Platform to develop additional preclinical product candidates. Further development of such preclinical product candidates is subject to ongoing commercial analysis, among other items. We have not yet determined the initial indications for which we will seek approval for such preclinical product candidates. Our strategy will be to seek initial approval for an approved indication of the reference product, which will be determined in consultation with regulatory authorities regarding clinical trial and study design, and then seek to expand such approval to the same indications as the reference product. We also intend to deliver our biosimilars in the same manner as the reference product.
 - ONS-4010, a biosimilar to denosumab (Prolia®/Xgeva®), has cell lines developed with clone selection completed. We have completed preliminary characterization and reverse engineering of the amino acid sequences of the reference product. We plan to complete process development, and commence our Phase 1 clinical trial, in 2017. Prolia is a subcutaneous injectable that is currently approved in the United States for treatment (i) of postmenopausal women with osteoporosis at high risk for fracture, (ii) to increase bone mass in men with osteoporosis at high risk for fracture, (iii) to increase bone mass in men at high risk for fracture receiving androgen deprivation therapy for nonmetastatic prostate cancer and (iv) to increase bone mass in women at high risk for fracture receiving adjuvant aromatase inhibitor therapy for breast cancer. Xgeva is a subcutaneous injectable currently approved in the United States for prevention of skeletal-related events in patients with bone metastases from solid tumors, treatment of adults and skeletally mature adolescents with giant cell tumor of bone that is unresectable or where surgical resection is likely to result in severe morbidity, and treatment of hypercalcemia of malignancy refractory to bisphosphonate therapy.
 - ONS-1055, a biosimilar to cetuximab (Erbitux[®]), has cell lines developed with clone selection nearing completion. We have completed preliminary characterization and reverse engineering of the amino acid sequences of the reference product. We plan to complete lab scale similarity in 2016. According to manufacturers' reports, 2014 worldwide sales of Erbitux[®] were \$2.0 billion.
 - ONS-3030, a biosimilar to tocilizumab (Actemra®/Roactemra®), ONS-3035, a biosimilar to golimumab (Simponi®), and ONS-3040, a biosimilar to ustekinumab (Stelara®), are in early development. According to manufacturers' reports, 2014 worldwide sales of Actemra/Roactemra, Simponi and Stelara were \$1.3 billion, \$1.2 billion and \$2.1 billion, respectively. We are focused on reverse engineering the reference product characteristics and developing cell lines for clone selection. In 2016, we anticipate completing clone selection for ONS-3030, and reference product characterization for each of ONS-3035 and ONS-3040.

Our Strategy

Our goal is to utilize the BioSymphony Platform to identify, develop, manufacture and commercialize technically challenging and commercially attractive mAbs on an accelerated timeline in a cost-effective manner, initially in the disease areas of immunology and oncology. The key elements of our strategy include:

- rapidly advancing our lead product candidates through late-stage clinical development and continuing to advance our preclinical pipeline;
- employing our expertise in product development to further expand our pipeline;
- cost effectively developing and manufacturing mAb biosimilars in an accelerated timeframe;
- continuing to invest in and expand our in-house manufacturing capabilities; and
- maximizing the value of our pipeline by retaining development and commercialization rights in the United States and continuing to selectively out-license to ex-U.S. markets.

Our Team

We have assembled a team of industry veterans, with decades of cumulative experience in biologics development and commercialization at such organizations as Bristol-Myers Squibb Company, Genentech, Inc., Hoffman-La Roche, NPS Pharmaceuticals, Inc. and Savient Pharmaceuticals, Inc. Our leadership team has also been instrumental in obtaining global regulatory approval for multiple complex biologics at leading multinational biopharmaceutical companies. Our Chairman, President and Chief Executive Officer, Pankaj Mohan, Ph.D., served as a Senior Manager at Eli Lilly and Company, head of Business Operations and Portfolio Management of Biologics Process and Product Development at Bristol-Myers Squibb Company and Director of Bioprocess Engineering at Genentech, Inc. In addition, our scientific team has specific experience in process development for complex biologics, protein manufacturing and analytical research and development, which are essential components for the development and manufacturing of complex biosimilars.

Our Culture and Mission

We are focused on identifying, developing and manufacturing complex biosimilar mAb therapeutics in the areas of immunology and oncology. We are dedicated to bringing cost-effective treatment options to patients and their families living with cancer and other serious diseases. The foundation of our BioSymphony Platform is our collaborative culture, which is based on the following core values:

- Agility and Speed we are committed to effective execution of the development process with a focus on simplification leading to efficient decision-making.
- Technical Excellence our leadership team and team of scientific experts have implemented a state-ofthe-art technology platform to enable application of scientific rigor in our development and manufacturing processes
- Industry Experience our team cumulatively has decades of experience in identifying, developing, manufacturing and commercializing complex biologics.

Risks Associated with Our Business

Our business is subject to numerous risks and uncertainties, including those highlighted in the section titled "Risk Factors" immediately following this prospectus summary. These risks include, among others, the following:

- We have a limited operating history, have incurred significant losses since our inception and expect to continue to incur significant losses for the foreseeable future.
- Our independent registered public accounting firm has expressed substantial doubt about our ability to continue as a going concern.
- We are heavily dependent on the success of our two most advanced product candidates, ONS-3010 and ONS-1045. All of our other product candidates are still in various stages of preclinical development. If we are unable to obtain regulatory approval for, or successfully commercialize, ONS-3010 and ONS-1045, our business will be harmed.
- If we infringe or are alleged to infringe intellectual property rights of third parties, our business could be harmed. Third-party claims of intellectual property infringement may prevent or delay our development and commercialization efforts.
- The evolving regulatory approval processes of the FDA, EMA and comparable foreign authorities are lengthy, time-consuming, rigorous and inherently unpredictable. If we and our collaboration partners are ultimately unable to obtain regulatory approval for our product candidates, our business will be harmed. To our knowledge, there has been only one biosimilar product application approved by the FDA under the 351(k) pathway to date.
- Clinical development of biosimilars is different and can be more complex than clinical development programs for the reference products.
- We expect to depend on third parties for the commercialization of our biosimilar product candidates in certain major markets for ONS-3010, ONS-1045 and ONS-1050 outside the United States, and their failure to commercialize in those markets could harm our business and operating results. We may not be successful in identifying contract counterparties, and we may not be able to reach agreements with such parties on terms that are as favorable to our company as we would anticipate.

- We are required to co-fund the development of, and proportionately share in the revenue from, the commercialization of ONS-3010 in the United States, Canada, EU, Japan, Australia and New Zealand under a joint participation agreement with Huahai. We may also be required to form a joint venture to further co-develop and commercialize ONS-3010 with Huahai in the agreed countries, if so requested by Huahai
- If we fail to comply with our obligations in the agreements under which we license intellectual property and other rights from third parties or otherwise experience disruptions to our business relationships with our licensors, we could lose license rights that are important to our business.
- We currently have no issued patents. If we are unable to obtain and maintain effective patent rights for our product candidates or any future product candidates, we may not be able to prevent competitors from using technologies we consider important in our successful development and commercialization of our product candidates, resulting in loss of any potential competitive advantage our patents may have otherwise afforded us
- We face intense competition and rapid technological change and the possibility that our competitors may develop therapies that are similar, more advanced or more effective than ours. Other biosimilars or "biobetters" of the reference products we are targeting may be approved and successfully commercialized before ours, which may adversely affect our financial condition and our ability to successfully commercialize our product candidates.
- We currently have no marketing and sales organization. If we are unable to establish sales and marketing capabilities in jurisdictions for which we choose to retain commercialization rights, we may be unable to generate any revenue.
- We may need to enter into alliances with other companies that can provide capabilities and funds for the development and commercialization of our product candidates. If we are unsuccessful in forming or maintaining these alliances on favorable terms, our business could be harmed.
- We are highly dependent on the services of our key executives and personnel, including our Chairman, President and Chief Executive Officer, Pankaj Mohan, Ph.D., and if we are not able to retain these members of our management or recruit additional management, clinical and scientific personnel, our business will suffer.

If we are unable to adequately address these and other risks we face, our business, financial condition, operating results and prospects may be harmed.

Implications of Being an Emerging Growth Company

As a company with less than \$1.0 billion in revenues during our last fiscal year, we are an "emerging growth company" as defined in the Jumpstart Our Business Startups Act, or the JOBS Act, enacted in April 2012, and therefore we intend to take advantage of certain exemptions from various public company reporting requirements, including not being required to have our internal control over financial reporting audited by our independent registered public accounting firm pursuant to Section 404(b) of the Sarbanes-Oxley Act of 2002, reduced disclosure obligations regarding executive compensation in our periodic reports and proxy statements and exemptions from the requirements of holding a nonbinding advisory vote on executive compensation and any golden parachute payments not previously approved. We may take advantage of these exemptions for up to five years or until we are no longer an "emerging growth company." We would cease to be an "emerging growth company" if we have more than \$1.0 billion in annual revenues, have more than \$700 million in market value of our capital stock held by non-affiliates as of the last day of our second fiscal quarter or issue more than \$1.0 billion of non-convertible debt over a three-year period. We may choose to take advantage of some, but not all, of the available benefits under the JOBS Act. We have taken advantage of some reduced reporting burdens in this prospectus. Accordingly, the information contained herein may be different than the information you receive from other public companies in which you hold stock.

In addition, the JOBS Act provides that an "emerging growth company" can take advantage of an extended transition period for complying with new or revised accounting standards. This provision allows an emerging growth company to delay the adoption of some accounting standards until those standards would otherwise apply to private companies. We have irrevocably elected not to avail ourselves of delayed adoption of new or revised accounting standards and, therefore, we will be subject to the same requirements to adopt new or revised accounting standards as other public companies that are not "emerging growth companies."

Recent Developments

In October 2015, we reincorporated in Delaware by merging with and into Oncobiologics, Inc., a newly formed Delaware corporation, with the Delaware corporation surviving the merger. As a result of the merger, each share of our issued and outstanding common stock converted into and became a share of common stock of the Delaware corporation on a 1-for-1 basis, each issued and outstanding share of our Series A redeemable preferred stock converted into 1,000 shares of common stock and approximately 1.4035 shares of Series A preferred stock of the Delaware corporation, and each issued and outstanding share of our Series B redeemable preferred stock converted into 1,000 shares of common stock and approximately 1.2867 shares of Series A preferred stock of the Delaware corporation. Additionally, in October 2015, effective upon our reincorporation and in connection with the dissolution of our business development subsidiary, Parilis Biopharmaceuticals, LLC, or Parilis, we issued 782,000 shares of common stock and 1,626 shares of Series A preferred stock to the holders of outstanding units in Parilis in exchange for all such units.

In January 2016, we issued and sold an aggregate of 301,152 shares of our common stock to five accredited investors at a purchase price of \$8.42 per share, for aggregate net proceeds of approximately \$2.5 million. All of the investors who purchased shares in this offering became party to the co-sale agreement, as amended, and the investors' rights agreement, as amended.

Corporate Information

We initially incorporated in January 2010 in New Jersey as Oncobiologics, Inc., and in October 2015, we reincorporated in Delaware by merging with and into a Delaware corporation. Our headquarters are located at 7 Clarke Drive, Cranbury, New Jersey, and our telephone number at that location is (609) 619-3990. Our website address is www.oncobiologics.com. The information contained on, or that can be accessed through, our website is not part of, and is not incorporated by reference into this prospectus and should not be considered to be part of this prospectus.

THE OFFERING

Common stock offered by us

shares

Common stock to be outstanding immediately after this offering

shares

Over-allotment option

shares

Use of proceeds

We estimate that the net proceeds from this offering will be million if million, or approximately \$ approximately \$ the underwriters exercise in full their over-allotment option to purchase additional shares, at an assumed initial public offering per share, the midpoint of the price range set forth on the cover page of this prospectus, after deducting underwriting discounts and commissions and estimated offering expenses payable by us. We intend to use the net proceeds from this offering to: fund our most advanced biosimilar product candidates through or into clinical development; expand our state-of-the-art research and development facility; fund our other research and development activities; and the remainder for working capital and general corporate purposes. We may also use a portion of the net proceeds to acquire complementary businesses, products or technologies, although, we have no present commitments or agreements for any specific

Risk factors

You should read the section titled "Risk Factors" together with all the other information included in this prospectus before deciding

to invest in shares of our common stock.

Proposed NASDAQ Global Market symbol

"ONS"

The number of shares of common stock to be outstanding after this offering is based on shares of common stock outstanding as of December 31, 2015, and excludes the following:

acquisitions.

- 860,880 shares of common stock issuable upon the exercise of PSUs whose terms provide for settlement in shares of common stock or cash at our discretion, with a weighted-average exercise price of \$1.84;
- 3,678,425 shares issuable upon vesting of restricted stock unit awards, or RSUs, granted under our 2015 Equity Incentive Plan, or the 2015 Plan;
- 621,575 shares of common stock reserved for future issuance under the 2015 Plan, as well as any automatic increases in the number of shares of common stock reserved for future issuance under this plan; and
- 1,000,000 shares of common stock reserved for future issuance under our 2016 Employee Stock Purchase Plan, or the ESPP, as well as any automatic increases in the number of shares of common stock reserved for future issuance under this plan, which will become effective upon the execution of the underwriting agreement related to this offering.

Unless otherwise noted, all information in this prospectus assumes:

- a -for- reverse split of our common stock to be effected prior to the closing of this offering;
- the issuance and sale of an aggregate of 301,152 shares of common stock in January 2016;
- the conversion of all outstanding shares of Series A preferred stock (with an aggregate liquidation preference of \$11,819,000 and a conversion price equal to the initial public offering price) into shares of common stock immediately prior to the closing of this offering (assuming an initial public offering price of \$ per share, the midpoint of the price range set forth on the cover page of this prospectus);
- the reclassification of 6,000,000 shares of redeemable common stock to common stock upon lapse of a contractual redemption right;

•	of this offering, and our amended and restated bylaws are effective;						
•	no exercise of any outstanding PSUs or vesting no exercise of the underwriters' over-allotment		additional shares.				
		•					
		8					

SUMMARY CONSOLIDATED FINANCIAL DATA

The following table summarizes our consolidated financial data. We derived the consolidated statements of operations data for the years ended September 30, 2014 and 2015 from our audited consolidated financial statements included elsewhere in this prospectus. The consolidated statements of operations data for the three months ended December 31, 2014 and 2015 and the consolidated balance sheet data as of December 31, 2015 have been derived from our unaudited interim financial statements included elsewhere in this prospectus and have been prepared on the same basis as the audited financial statements. In the opinion of management, the unaudited data reflects all adjustments, consisting only of normal recurring adjustments, necessary for a fair presentation of the financial information in those statements. Our historical results are not necessarily indicative of the results that may be expected in the future, and our interim period results are not necessarily indicative of results to be expected for a full year or any other interim period. You should read this data together with our consolidated financial statements and related notes thereto, and the sections titled "Selected Consolidated Financial Data" and "Management's Discussion and Analysis of Financial Condition and Results of Operations" included elsewhere in this prospectus.

	Year Ended S		Three Months Ended December 31,		
	2014	2015	2014	2015	
Consolidated Statements of Operations Data:			(Unai	udited)	
Consolidated Statements of Operations Data.					
Collaboration revenues	\$ 9,050,542	\$ 5,219,237	\$ 2,934,555	\$ 994,894	
Operating expenses:					
Research and development	14,124,631	38,876,040	5,840,030	12,733,976	
General and administrative	7,318,314	12,905,823	1,237,839	4,674,155	
	21,442,945	51,781,863	7,077,869	17,408,131	
Loss from operations	(12,392,403)	(46,562,626)	(4,143,314)	(16,413,237	
Interest expense	901,052	2,297,339	357,580	398,975	
Loss before income taxes	(13,293,455)	(48,859,965)	(4,500,894)	(16,812,212	
Income tax expense (benefit)	439,018	(190,111)	406,363	52,000	
Net loss	(13,732,473)	(48,669,854)	(4,907,257)	(16,864,212	
Less: Net loss attributable to noncontrolling interests	_	(1,276,571)	_	_	
Net loss attributable to Oncobiologics, Inc. Accretion of redeemable preferred stock and	(13,732,473)	(47,393,283)	(4,907,257)	(16,864,212	
noncontrolling interests	(3,588,996)	(4,306,488)	(1,071,164)	(939,539	
Deemed dividends upon the repurchase of Series A redeemable preferred stock and redeemable noncontrolling interests	(3,336,855)	(1,298,631)	(1,230,998)	_	
Net loss attributable to common stockholders of Oncobiologics, Inc.	\$(20,658,324)	\$(52,998,402)	\$ (7,209,419)	\$ (17,803,751	
Per share information: ⁽¹⁾				-	
Net loss per share of common stock, basic and	ф (0.70)	ф (1 F7)	ф (0.22)		
diluted Weighted-average shares outstanding, basic and diluted	\$ (0.70) 29,358,331	\$ (1.57) 33,650,012	\$ (0.22) 32,352,231	\$ (0.40 45,062,494	
Pro forma net loss per share of common stock – basic and diluted (unaudited)	10,000,001	30,000,012	02,002,201	10,002,10	
Pro forma weighted-average shares outstanding (unaudited)				_	

⁽¹⁾ See Note 3 to our annual and interim consolidated financial statements, respectively, included elsewhere in this prospectus for an explanation of the calculations of our basic and diluted net loss per common share, pro forma net loss per common share and the weighted-average number of shares used in the computation of the per share amounts.

	As of December 31, 2015		
	(Unaudited)		
	Actual	Pro forma ⁽¹⁾	Pro forma as adjusted ⁽²⁾⁽³⁾
Consolidated Balance Sheet Data:			
Cash	\$ 5,582,255	\$ 10,806,901	
Working capital (deficit)	(25,087,988)	(22,562,819)	
Total assets	31,322,869	33,797,518	
Debt obligations, current and long-term	15,488,800	15,488,800	
Redeemable preferred stock, common stock and noncontrolling interests	16,366,212	_	
Total stockholders' equity (deficit)	(30,914,816)	(12,023,435)	

- (1) The pro forma column reflects (i) the issuance of 301,152 shares of common stock for aggregate net proceeds of approximately \$2.5 million in January 2016, (ii) cash proceeds of approximately \$2.7 million received subsequent to December 31, 2015 related to stock issued in December 2015, (iii) the conversion of 11,819 shares of Series A preferred stock into shares of common stock immediately prior to the closing of this offering (assuming an initial public offering price of \$ per share, the midpoint of the price range set forth on the cover page of this prospectus), and (iv) the reclassification of 6,000,000 shares of redeemable common stock to common stock upon lapse of a contractual redemption right
- (2) The pro forma as adjusted column further reflects the receipt of \$ million in net proceeds from our sale of shares of common stock in this offering at an assumed initial public offering price of \$ per share, the midpoint of the price range set forth on the cover page of this prospectus, after deducting estimated underwriting discounts and commissions and estimated offering expenses payable by us.
- (3) A \$1.00 increase (decrease) in the assumed initial public offering price of \$ per share, the midpoint of the price range set forth on the cover page of this prospectus, would increase (decrease) each of cash, working capital, total assets and total stockholders' equity on a pro forma as adjusted basis by approximately \$ million, assuming that the number of shares offered by us, as set forth on the cover page of this prospectus, remains the same, and after deducting estimated underwriting discounts and commissions and estimated offering expenses payable by us. Similarly, an increase (decrease) by 1,000,000 shares in the number of shares offered by us would increase (decrease) each of cash, working capital, total assets and total stockholders' equity on a pro forma as adjusted basis by approximately \$ million, assuming that the assumed initial public offering price remains the same, and after deducting estimated underwriting discounts and commissions and estimated offering expenses payable by us. The pro forma as adjusted information discussed above is illustrative only and will be adjusted based on the actual initial public offering price and other terms of this offering determined at pricing.

RISK FACTORS

Investing in our common stock involves a high degree of risk. You should carefully consider the risks described below, as well as the other information in this prospectus and any related free writing prospectus, including our consolidated financial statements and the related notes thereto and the section titled "Management's Discussion and Analysis of Financial Condition and Results of Operations," before deciding whether to invest in our common stock. The occurrence of any of the events or developments described below could harm our business, financial condition, results of operations and growth prospects. In such an event, the market price of our common stock could decline and you may lose all or part of your investment. Additional risks and uncertainties not presently known to us or that we currently deem immaterial also may impair our business operations.

Risks Related to Our Financial Condition and Capital Requirements

We have a limited operating history, have incurred significant losses and negative cash flows from operations since our inception and expect to continue to incur significant losses and negative cash flows from operations for the foreseeable future

We are a biopharmaceutical company with a limited operating history and we have incurred net losses in each year since our inception in January 5, 2010, including net losses of \$13.7 million and \$47.4 million for the years ended September 30, 2014 and 2015, respectively, and \$16.9 million for the three months ended December 31, 2015.

We have devoted substantially all of our financial resources to identify, develop and manufacture our product candidates, including conducting, among other things, analytical characterization, process development and manufacture, formulation and clinical trials, regulatory filing and communication activities and providing general and administrative support for these operations. To date, we have financed our operations primarily through the sale of equity securities and debt financings, as well as to a limited degree, payments under our co-development and license agreements with Zhejiang Huahai Pharmaceutical Co., Ltd., or Huahai, Laboratorios Liomont, S.A. de C.V., or Liomont, and IPCA Laboratories Limited, or IPCA. The amount of our future net losses will depend, in part, on the rate of our future expenditures and our ability to obtain funding through equity or debt financing or strategic licensing or co-development collaborations.

We expect to continue to incur significant expenses and increasing operating losses for the foreseeable future. We anticipate that our expenses will increase substantially if and as we:

- continue preclinical studies and clinical development of our identified product candidates;
- expand the number of our current clinical trials for our product candidates;
- advance our programs into larger global clinical trials;
- initiate additional preclinical, clinical or other studies for our product candidates;
- change or add clinical research service providers, testing laboratories, device suppliers, legal service providers
 or other vendors or suppliers;
- invest in, and maintain, our development and manufacturing facilities and infrastructure;
- seek regulatory and marketing approvals for our product candidates that successfully complete clinical trials;
- establish a sales, marketing and distribution infrastructure to commercialize any products for which we may obtain marketing approval;
- seek to identify, assess, acquire or develop other biosimilar product candidates that may be complementary to our product candidates;
- make upfront, milestone, royalty or other payments under any license agreements;
- seek to create, maintain, protect and expand our intellectual property portfolio;
- engage in litigation, including patent litigation, with originator companies or others that may hold patents to the
 reference products for which we are developing biosimilars, or to methods of manufacture or methods of use we
 may employ in the production of our biosimilars;
- seek to attract and retain skilled personnel;
- create additional infrastructure to support our operations as a public company and our product development and planned future commercialization efforts; and
- experience any delays or encounter issues with any of the above, including but not limited to failed clinical trials, conflicting results, safety issues or regulatory challenges that may require longer follow-up of existing studies, additional major studies or additional supportive studies in order to pursue marketing approval.

Our failure to become and remain profitable would decrease the value of the company and could impair our ability to raise capital, maintain our research and development efforts, expand our business or continue our operations. A decline in the value of our company could also cause you to lose all or part of your investment.

Our independent registered public accounting firm has expressed substantial doubt about our ability to continue as a going concern

As described in their audit report, our auditors have included an explanatory paragraph that states that we have incurred recurring losses and negative cash flows from operations since inception and have an accumulated deficit at September 30, 2015 of \$94.1 million and \$14.2 million of indebtedness that is due on demand. These matters raise substantial doubt about our ability to continue as a going concern. Our consolidated financial statements do not include any adjustments that might result from the outcome of this uncertainty. If we cannot continue as a viable entity, our stockholders may lose some or all of their investment in us.

We have never generated any revenue from product sales and may never be profitable.

Although we have received upfront and milestone payments from our license and collaboration agreements, we have no products approved for commercialization and have never generated any revenue from product sales. Our ability to generate revenue and achieve profitability depends on our ability, alone or with strategic collaboration partners, to successfully complete the development of, and obtain the regulatory and marketing approvals necessary to commercialize, one or more of our product candidates. We cannot predict when we will begin generating revenue from product sales, as this depends heavily on our success in many areas, including but not limited to:

- completing preclinical and clinical development of our product candidates;
- developing and testing of our product candidate formulations;
- obtaining regulatory and marketing approvals for product candidates for which we complete clinical trials, including any delays as a result of petitions by reference product sponsors, or RPSs, or patent holders;
- obtaining extensions of approvals for our product candidates to other indications for which the reference product is approved and commercialized;
- developing a sustainable and scalable manufacturing process for any approved product candidates to support clinical development and the market demand for any such approved product candidates;
- launching and commercializing product candidates for which we obtain regulatory and marketing approval, either directly or with collaboration partners:
- obtaining adequate third-party coverage and reimbursements for our products;
- obtaining market acceptance of our product candidates as viable treatment options, including with respect to the
 efficacy, safety and biosimilarity of our product candidates to the reference products;
- addressing any competing technological and market developments;
- identifying, assessing and developing, or acquiring and in-licensing, new product candidates;
- negotiating favorable terms in any collaboration, licensing or other arrangements into which we may enter;
- establishing through litigation or otherwise that we are not violating the intellectual property rights of innovators
 of reference products for which we are developing biosimilars, or that of other third parties;
- maintaining, protecting and expanding our portfolio of intellectual property rights, including patents, trade secrets and know-how; and
- attracting, hiring and retaining qualified personnel.

Even if one or more of the product candidates is approved for commercialization, we anticipate incurring significant costs to commercialize any such product. Our expenses could increase beyond our expectations if we are required by the U.S. Food and Drug Administration, or the FDA, the European Medicines Agency, or the EMA, other regulatory agencies, domestic or foreign, or by any unfavorable outcomes in intellectual property litigation filed against us, to change our manufacturing processes or assays or to perform clinical, preclinical or other types of studies in addition to those that we currently anticipate. In cases where we are successful in obtaining regulatory approvals to market one or more of our product candidates, our revenue will be dependent, in part, upon:

- the size of the markets in the territories for which we gain regulatory approval;
- the number of biosimilar and other competitors in such markets;
- the market acceptance of our products, or biosimilars in general, over the reference products;
- novel therapies for the approved indications in our biosimilar market that erode uptake;

- the accepted price for the product and the ability to get reimbursement at any price;
- the nature and degree of competition from originators and other biosimilar companies (including competition
 from large pharmaceutical companies entering the biosimilar market that may be able to gain advantages in the
 sale of biosimilar products based on brand recognition and/or existing relationships with providers, pharmacy
 benefit managers and payors);
- the quality and performance of our products compared to the reference products or other competing products, including the relative safety and efficacy; and
- whether we own, or have partnered, the commercial rights for that territory.

If the market for our product candidates, or our share of that market, is not as large as we expect, the number of indications approved by regulatory authorities is narrower than we expect or the target population for treatment is narrowed by competition, physician choice or treatment guidelines, we may not generate significant revenue from sales of such products to become profitable. If we are unable to successfully complete development and obtain regulatory approval for our lead product candidates, namely ONS-3010, ONS-1045 and ONS-1050, our business will be harmed.

Even if this offering is successful, we expect that we will need to raise substantial additional funding. This additional funding may not be available on acceptable terms or at all. Failure to obtain this necessary capital when needed may force us to delay, limit or terminate our product development efforts or other operations.

We are currently advancing our product candidates through preclinical and clinical development. Developing product candidates is an expensive, risky and lengthy process, and we expect our expenses to increase in connection with our ongoing activities, particularly as we continue the research and development of, continue and initiate clinical trials of, and seek marketing approval for, our product candidates, in particular ONS-3010, ONS-1045 and ONS-1050. Furthermore, upon the closing of this offering, we expect to incur additional costs associated with operating as a public company.

As of December 31, 2015, our cash was \$5.6 million. We expect that our existing cash along with the net proceeds from this offering will be sufficient to fund our current operations for the next 12 months. We expect that we will require additional capital to complete clinical trials, obtain regulatory approval for, and to commercialize, our product candidates, including our other preclinical product candidates and our future product candidates. However, our operating plan may change as a result of many factors currently unknown to us, and we may need to seek additional funds sooner than planned, through public or private equity or debt financings, third-party funding, marketing and distribution arrangements, as well as other collaborations, strategic alliances and licensing arrangements, or a combination of these approaches. In any event, we will require additional capital to pursue preclinical and clinical activities, pursue regulatory approval for, and to commercialize, our longer term pipeline product candidates. Even if we believe we have sufficient funds for our current or future operating plans, we may seek additional capital if market conditions are favorable or if we have specific strategic considerations.

Any additional fundraising efforts may divert our management from their day-to-day activities, which may adversely affect our ability to develop and commercialize our product candidates. In addition, we cannot guarantee that future financing will be available in sufficient amounts or on terms acceptable to us, if at all. Moreover, the terms of any financing may negatively impact the holdings or the rights of our stockholders, and the issuance of additional securities, whether equity or debt, by us or the possibility of such issuance may cause the market price of our shares to decline. The incurrence of indebtedness could result in increased fixed payment obligations and we may be required to agree to certain restrictive covenants, such as limitations on our ability to incur additional debt, limitations on our ability to acquire, sell or license intellectual property rights and other operating restrictions that could adversely impact our ability to conduct our business. We could also be required to seek funds through arrangements with collaborative partners or otherwise at an earlier stage than would be desirable and we may be required to relinquish rights to some of our technologies or product candidates or otherwise agree to terms unfavorable to us, any of which may harm our business, operating results and prospects. Even if we believe we have sufficient funds for our current or future operating plans, we may seek additional capital if market conditions are favorable or for specific strategic considerations.

If we are unable to obtain funding on a timely basis, we may be required to significantly curtail, delay or discontinue one or more of our development programs or the commercialization of any product candidates. We may also be unable to expand our operations or otherwise capitalize on our business opportunities, as desired, which could harm our business, financial condition and results of operations.

Raising additional capital may cause dilution to our stockholders, including purchasers of common stock in this offering, restrict our operations or require us to relinquish rights to our technologies or product candidates.

Until such time, if ever, as we can generate substantial product revenues, we expect to finance our cash needs through a combination of equity and debt financings, as well as selectively continuing to enter into collaborations, strategic alliances and licensing arrangements. We do not currently have any committed external source of funds. To the extent that we raise additional capital through the sale of equity or convertible debt securities, your ownership interest will be diluted, and the terms of these securities may include liquidation or other preferences that adversely affect your rights as a common stockholder. Debt financing, if available, may involve agreements that include covenants limiting or restricting our ability to take specific actions, such as incurring additional debt, making capital expenditures or declaring dividends, and may be secured by all or a portion of our assets.

If we raise funds by selectively continuing to enter into collaborations, strategic alliances or licensing arrangements with third parties, we may have to relinquish additional valuable rights to our technologies, future revenue streams, research programs or product candidates or to grant licenses on terms that may not be favorable to us. If we are unable to raise additional funds through equity or debt financings when needed, we may be required to delay, limit, reduce or terminate our product development or future commercialization efforts or grant rights to develop and market product candidates that we would otherwise prefer to develop and market ourselves. If we are unable to raise additional funds through collaborations, strategic alliances or licensing arrangements, we may be required to terminate product development or future commercialization efforts or to cease operations altogether.

Risks Related to the Discovery and Development of Our Product Candidates

We are heavily dependent on the success of our two most advanced product candidates, ONS-3010 and ONS-1045. All of our other product candidates are still in various stages of preclinical development. If we are unable to obtain regulatory approval for, or successfully commercialize, ONS-3010 and ONS-1045, our business will be

Biosimilar product development is a highly speculative undertaking and involves a substantial degree of risk. We have initiated preparatory activities for our confirmatory Phase 3 clinical trial of ONS-3010, our adalimumab (Humira) biosimilar candidate, and ONS-1045, our bevacizumab (Avastin) biosimilar candidate. It may be several years, if ever, before we complete Phase 3 clinical trials and have a product candidate ready to file for market approval with the relevant regulatory agencies. If we obtain regulatory approval to market a biosimilar product candidate, our future revenue will depend upon the size of any markets in which our product candidates may receive approval and our ability to achieve sufficient market acceptance, pricing, reimbursement from third-party payors and adequate market share for our product candidates in those markets. Even if one or more of our product candidates gain regulatory approval and are commercialized, we may never become profitable.

To date, we have invested substantially all of our efforts and financial resources to identify, develop and manufacture our product candidates. Our future success is dependent on our ability to develop, obtain regulatory approval for, and commercialize and obtain adequate third-party coverage and reimbursement for one or more product candidates. We currently do not have any approved products and generate no revenue from sales of any products, and we may never be able to develop or commercialize a marketable product.

Our product candidates are in varying stages of development and will require significant additional investment before we generate any revenue from product sales, if at all. Notably, we must continue clinical development, including managing preclinical and clinical manufacturing activities, obtain regulatory approvals, manufacture adequate commercial supplies, build a commercial organization and conduct significant marketing efforts. We have initiated Phase 3 preparatory activities for ONS-3010 and ONS-1045, and we expect to commence a Phase 1 clinical trial of ONS-1050 in 2016. We are not permitted to market or promote any of our product candidates before we receive regulatory approval from the FDA or comparable foreign regulatory authorities, and we may never receive such regulatory approval for any of our product candidates. We have not submitted any marketing applications for our product candidates to the FDA or comparable foreign regulatory authorities and any application we submit may not be approved.

We plan to seek regulatory approval to commercialize our product candidates in the United States, the European Union, or the EU, and in additional foreign countries where we or our partners have commercial rights. To obtain regulatory approval, we and our collaboration partners must comply with numerous and varying regulatory requirements of such countries regarding safety, efficacy, chemistry, manufacturing and controls, clinical trials, commercial sales and pricing and distribution of our product candidates. Even if we are successful in obtaining approval in one jurisdiction, we cannot ensure that we will obtain approval in any other jurisdictions. If we are unable to obtain approval for our product candidates in multiple jurisdictions, our revenue and results of operations could be negatively impacted.

We cannot be certain that any of our product candidates will be successful in clinical trials or receive regulatory approval. Further, our product candidates may not receive regulatory approval even if they are successful in clinical trials. If we do not receive regulatory approvals for our product candidates, we may not be able to continue our operations.

The development, manufacture and commercialization of biosimilar products under various global regulatory pathways pose unique risks. To our knowledge, there has been only one biosimilar product application approved by the FDA under the 351(k) pathway to date.

United States Regulatory Framework for Biosimilars

We and our collaboration partners intend to pursue market authorization globally. In the United States an abbreviated pathway for approval of biosimilar products was established by the Biologics Price Competition and Innovation Act of 2009, or BPCIA, enacted on March 23, 2010, as part of the Patient Protection and Affordable Care Act. The BPCIA established this abbreviated pathway under section 351(k) of the Public Health Service Act, or PHSA. Subsequent to the enactment of the BPCIA, the FDA issued draft guidance regarding the demonstration of biosimilarity as well as the submission and review of biosimilar applications. To our knowledge, there has been only one biosimilar product application approved by the FDA under the 351(k) pathway to date. Moreover, market acceptance of biosimilar products in the United States is unclear. Numerous states are considering or have already enacted laws that regulate or restrict the substitution by state pharmacies of biosimilars for reference products already licensed by the FDA. Market success of biosimilar products will depend on demonstrating to patients, physicians, payors and relevant authorities that such products are similar in quality, safety and efficacy as compared to the reference product.

The BPCIA requires a biosimilar applicant to demonstrate biosimilarity with respect to a reference product that has been approved by FDA in the United States. Biosimilars approved in the EU and other non-U.S. jurisdictions may not be approved in the United States without additional "bridging" studies demonstrating biosimilarity to an FDA-approved reference product. Biosimilars approved in the United States may also not be approved in foreign jurisdictions without additional bridging studies. The requirements for such bridging studies are not well defined, which may delay the global marketing of our product candidates.

We will continue to analyze and incorporate into our biosimilar development plans any final regulations or guidance issued by the FDA, pharmacy substitution policies enacted by state governments and other applicable requirements established by relevant authorities. The costs of development and approval, along with the probability of success for our biosimilar product candidates, will be dependent upon application of any laws and regulations issued by the relevant regulatory authorities.

Biosimilar products may also be subject to extensive patent clearances and patent infringement litigation, which may delay and could prevent the commercial launch of a product. Moreover, the BPCIA prohibits the FDA from accepting an application for a biosimilar candidate to a reference product within four years of the reference product's licensure by the FDA. In addition, the BPCIA provides reference biologics with 12 years of exclusivity from the date of their licensure, during which time the FDA cannot approve any application for a biosimilar candidate to the reference product. For example, the FDA would not be able to grant approval of any application submitted for an adalimumab (Humira) biosimilar. a bevacizumab (Avastin) biosimilar or a trastuzumab (Herceptin) biosimilar, until 12 years after the original biologics license application or the BLAs, for these drugs were approved, which occurred on December 31, 2002 in the case of Humira, February 26, 2004 in the case of Avastin and September 25, 1998 in the case of Herceptin. However, in the past, legislative proposals have been introduced to cut this 12-year period of exclusivity down to seven years and prohibit additional periods of exclusivity due to minor changes in product formulations, a practice often referred to as "evergreening." In addition, the Federal Circuit has recently interpreted the BPCIA as requiring (under certain circumstances) the biosimilar applicant to give the RPS 180 days' notice of commercial launch after receiving approval from FDA. This could result in an additional six months of market exclusivity for the reference product. Patent infringement litigation under the BPCIA may also be complex and time-consuming. RPSs may seek preliminary injunctions barring launch during the pendency of such litigation, which could substantially delay market entry.

The BPCIA is complex and only beginning to be interpreted and implemented by the FDA and courts. As a result, its ultimate impact, implementation and meaning are evolving and subject to significant uncertainty. Future implementation decisions by the FDA or court decisions could result in delays in the development or commercialization of our product candidates or increased costs to assure regulatory compliance and could adversely affect our operating results by restricting or significantly delaying our ability to market new biosimilar products.

Regulatory Framework for Biosimilars Outside the United States

In 2004, the European Parliament issued legislation allowing the approval of biosimilar therapeutics. Since then, the European Commission has granted marketing authorizations for more than 21 biosimilars pursuant to a set of general and product class-specific guidelines for biosimilar approvals issued over the past few years. Because of their extensive experience in the review and approval of biosimilars, the EU has more final guidelines than the FDA, including specific product data requirements needed to support approval.

Generally speaking, under current EU regulations, an application for regulatory approval of a biosimilar drug cannot be submitted in the EU until expiration of an eight year data exclusivity period for the reference product, measured from the date of the reference product's initial marketing authorization. Furthermore, once approved, the biosimilar cannot be marketed until expiration of a 10-year period following the initial marketing authorization of the reference product, such 10-year period being extendible to 11 years if the reference product received approval of an additional therapeutic indication within the first eight years following its initial marketing authorization, representing a significant clinical benefit in comparison with existing therapies. However, we understand that reference products approved prior to November 20, 2005 (which would include, for example, Humira, approved in the EU on August 9, 2003) are subject to a 10-year period of data exclusivity. While the data exclusivity periods for Humira have now expired in the EU, the reference product is presently still subject to unexpired patents.

In the EU, the approval of a biosimilar for marketing is based on an opinion issued by the EMA and a decision issued by the European Commission. Therefore, the marketing approval will cover the entire European Economic Area, or EEA. However, substitution of a biosimilar for the reference product is a decision that is made at the Member State level. Additionally, a number of countries do not permit the automatic substitution of biosimilars for the reference product. Therefore, even if we obtain marketing approval for the entire EEA, we may not receive substitution in one or more European nations, thereby restricting our ability to market our products in those jurisdictions.

Other regions, including Canada, Mexico, China, Japan and Korea, also have their own legislation outlining a regulatory pathway for the approval of biosimilars. In some cases, other countries have either adopted European guidance (Singapore and Malaysia) or are following guidance issued by the World Health Organization (Cuba and Brazil). While there is overlap in the regulatory requirements across regions, there are also some areas of non-overlap. Additionally, we cannot predict whether countries that we may wish to market in, which do not yet have an established or tested regulatory framework, could decide to issue regulations or guidance and/or adopt a more conservative viewpoint than other regions. Therefore, it is possible that even if we obtain agreement from one health authority to an accelerated or optimized development plan, we will need to defer to the most conservative view to ensure global harmonization of the development plan. Also, for regions where regulatory authorities do not yet have sufficient experience in the review and approval of a biosimilar product, these authorities may rely on the approval from another region such as the United States or the EU, which could delay our approval in that region.

Due to our limited resources and access to capital, we have, and will continue to need to, prioritize development of certain product candidates; and these decisions may prove to have been wrong and may harm our business.

Because we have limited resources and access to capital to fund our operations, we must decide which product candidates to pursue and the amount of resources to allocate to each. We are currently primarily focused on the development of mAb biosimilars and, in particular, ONS-3010, ONS-1045 and ONS-1050. Our decisions concerning the allocation of research, collaboration, management and financial resources toward particular product candidates or therapeutic areas may not lead to the development of viable commercial products and may divert resources away from better opportunities. Similarly, our potential decisions to delay, terminate or collaborate with third parties in respect to certain product development programs may also prove not to be optimal and could cause us to miss valuable opportunities. If we make incorrect determinations regarding the market potential of our product candidates or misread trends in the biosimilar industry, our business, financial condition and results of operations could be harmed.

The evolving regulatory approval processes of the FDA, EMA and comparable foreign authorities are lengthy, time-consuming, rigorous and inherently unpredictable. If we and our collaboration partners are ultimately unable to obtain regulatory approval for our product candidates, our business will be harmed.

The research, development, testing, manufacturing, labeling, packaging, approval, promotion, advertising, storage, marketing, distribution, post-approval monitoring and reporting and export and import of biologic products are subject to extensive regulation by the FDA and other regulatory authorities in the United States, by the EMA and Competent Authorities in the EEA, and by other regulatory authorities in other countries, where regulations differ from country to country. We are not permitted to market our product candidates in the United States until we receive approval from the FDA, or in the EEA until we receive European Commission or EEA Competent Authority approvals.

The exact amount of time required to obtain approval by the FDA and comparable foreign authorities is unpredictable, may take years following the completion of clinical trials and depends upon numerous factors, which may not be within our control. In addition, approval policies, regulations or the type and amount of clinical data necessary to gain approval may change during the course of a product candidate's clinical development and may vary among jurisdictions, which could cause delays in the approval or the decision not to approve an application. We have not obtained regulatory approval for any of our product candidates, and it is possible that none of our current or future product candidates will ever obtain regulatory approval.

Applications for our product candidates could fail to receive regulatory approval for many reasons, including but not limited to the following:

- the data collected from clinical trials of our product candidates may not be sufficient to support the submission of a BLA, a biosimilar product application under the 351(k) pathway of the PHSA, a biosimilar marketing authorization under Article 6 of Regulation (EC) No. 726/2004 and/or Article 10(4) of Directive 2001/83/EC in the EEA or other submission or to obtain regulatory approval in the United States, the EEA or elsewhere;
- the FDA, EMA or other foreign regulatory authorities may disagree with the design or implementation of our clinical trials:
- the population studied in the clinical trial may not be sufficiently representative to assure safety in the full
 population for which we seek approval;
- the FDA, EMA or other foreign regulatory authorities may disagree with our interpretation of data from analytical and bioanalytical studies, preclinical studies or clinical trials;
- we may be unable to demonstrate to the FDA, EMA or other foreign regulatory authorities that our product candidate is highly similar to biological reference products already licensed by the regulatory authority pursuant to marketing applications, notwithstanding minor differences in clinically inactive components;
- we may be unable to extrapolate or obtain approval of other indication for which the reference product is approved by the FDA, EMA or other foreign regulatory authority to other indications for which the reference product is approved;
- we may be unable to obtain an interchangeability designation by the FDA or other foreign regulatory authority for our product candidate, which may deter physicians, providers and payors from prescribing our product candidates;
- the FDA or comparable foreign regulatory authorities may fail to deem our manufacturing processes, test procedures and specifications or our manufacturing facilities adequate for approval; and
- the approval policies or regulations of the FDA, EMA or other foreign regulatory authorities may significantly change in a manner rendering our clinical data insufficient for approval.

This lengthy approval process, as well as the unpredictability of the results of clinical trials, may result in our failure to obtain regulatory approval to market any of our product candidates, which would significantly harm our business. Moreover, any delays in the commencement or completion of clinical testing could significantly impact our product development costs and commercial return potential, and could result in the need for additional financing.

In addition, if we change the regulatory pathway through which we intend to seek approval of any of our product candidates, or alter their composition or method of manufacturing, we may have to conduct additional clinical trials, which may delay our ability to submit a marketing application for the product. Even if we or our collaboration partners were to obtain approval for any of our product candidates, regulatory agencies may limit the scope of such approval for fewer or more limited indications than we request, may grant approval contingent on the completion of costly additional clinical trials or may approve a product candidate with a label that does not include the labeling claims necessary or desirable for the successful commercialization of that product candidate. Any of the foregoing could harm the commercial prospects for our product candidates

If we are not able to demonstrate the biosimilarity of our product candidates to the satisfaction of regulatory authorities, we will not obtain regulatory approval for commercial sale of our product candidates and our future results of operations will be adversely affected.

Our future results of operations depend heavily on our ability to obtain regulatory approval for and to commercialize our biosimilar product candidates. To obtain regulatory approval for the commercial sale of these product candidates, we will be required to demonstrate to the satisfaction of regulatory authorities, among other relevant groups such as physicians and payors, that our biosimilar product candidates are highly similar to biological reference products already licensed by the regulatory authority pursuant to marketing applications, notwithstanding minor differences in clinically inactive

components, and that there are no clinically meaningful differences as compared to the marketed reference products in terms of the safety, purity and potency of such reference products. Each jurisdiction may apply different criteria to assess biosimilarity, based on a preponderance of the data that can be interpreted subjectively in some cases.

Although we have had several interactions with both the FDA and EMA for our lead product candidates and will continue to meet with regulators as necessary, we cannot be assured that results from our scientific studies will meet the rigorous requirements for approval. In addition, we cannot be certain of potential future changes to regulatory requirements that may require additional work before approval can be granted. It is also uncertain if regulatory authorities will grant the full reference label to our biosimilar product candidates when they are approved. For example, an infliximab (Remicade[®]) biosimilar molecule was approved in the EU for the full reference label but did not receive the full reference label when approved in Canada. A similar outcome could occur with respect to one or more of our product candidates, which would have a negative impact on our ability to commercialize our products.

The structure of complex mAb biologics is inherently variable and highly dependent on the processes and conditions used to manufacture them. If we are unable to develop manufacturing processes that achieve a requisite degree of biosimilarity to the reference product, and within a range of variability considered acceptable by regulatory authorities, we may not be able to obtain regulatory approval for our products.

MAb biologics are inherently heterogeneous and their structures are highly dependent on the cell line and production process conditions. Products from one production facility can differ within an acceptable range from those produced in another facility. Similarly, physicochemical differences can also exist among different lots produced within a single facility. The physicochemical complexity and size of biologic therapeutics create significant technical and scientific challenges in the context of their replication as biosimilar products.

The inherent variability in the protein structure from one production lot to another is a fundamental consideration with respect to establishing biosimilarity to a reference product to support regulatory approval requirements. For example, the glycosylation of the protein, meaning the manner in which sugar molecules are attached to the protein when it is produced, can be critical to the half-life, efficacy, immunogenicity and safety of the therapeutic and is therefore a key consideration for biosimilarity. Also, small changes in the structure or folding of the protein backbone of a mAb can impact its affinity, specificity and immunogenicity. Defining and understanding the variability of a reference product in order to match its glycosylation profile and other critical quality attributes requires significant skill in cell biology, protein purification and analytical protein chemistry. Furthermore, manufacturing proteins with reliable and consistent product quality at scale is challenging and highly dependent on the skill of the cell biologist and process scientist.

There are extraordinary technical challenges in developing complex mAb biologics that not only must achieve an acceptable degree of similarity to the reference product in terms of structural characteristics, but also the ability to develop manufacturing processes that can replicate the necessary structural characteristics within an acceptable range of variability sufficient to satisfy regulatory authorities.

Given the challenges caused by the inherent variability in protein production, we may not be successful in developing our product candidates if regulators conclude that we have not achieved a sufficient level of biosimilarity to the reference product, or that the processes we use to manufacture our product candidates are unable to produce our product candidates within an acceptable range of variability. These challenges may result in a failure to obtain regulatory approval for our products and could harm our business.

Clinical drug development is a lengthy and expensive process and we may encounter substantial delays in our clinical trials or may fail to demonstrate safety and efficacy to the satisfaction of applicable regulatory authorities.

Before obtaining marketing approval from regulatory authorities for the sale of our product candidates, we and our collaboration partners must conduct clinical trials to demonstrate the safety and efficacy of the product candidates in humans.

We cannot guarantee that any clinical trials will be conducted as planned or completed on schedule, if at all. A failure of one or more clinical trials can occur at any stage of testing, and our future clinical trials may not be successful. Events that may prevent successful or timely completion of clinical development include but are not limited to:

- inability to generate sufficient preclinical, toxicology or other in vivo or in vitro data to support the initiation of human clinical trials;
- delays in reaching a consensus with regulatory agencies on study design;
- delays in reaching agreement on acceptable terms with prospective contract research organizations, or CROs, and clinical trial sites, the terms of which can be subject to extensive negotiation and may vary significantly among different CROs and clinical trial sites;

- delays in obtaining required Institutional Review Board, or IRB, approval at each clinical trial site;
- imposition of a clinical hold by regulatory agencies, after review of an investigational new drug, or IND, application or amendment or equivalent filing, or an inspection of our clinical trial operations or trial sites, or as a result of adverse events reported during a clinical trial;
- delays in recruiting suitable patients to participate in our clinical trials;
- difficulty collaborating with patient groups and investigators;
- failure by our CROs, other third parties or us to adhere to clinical trial requirements;
- failure to perform in accordance with the FDA's good clinical practice, or GCP, requirements or applicable regulatory guidelines in other countries;
- delays in having subjects complete participation in a study or return for post-treatment follow-up, or subjects dropping out of a study:
- occurrence of adverse events associated with the product candidate that are viewed to outweigh its potential benefits:
- changes in regulatory requirements and guidance that require amending or submitting new clinical protocols;
- the cost of clinical trials of our product candidates being greater than we anticipate;
- inability to obtain sufficient quantities of reference product for the comparator arm of our studies;
- clinical trials of our product candidates producing negative or inconclusive results, which may result in us
 deciding or regulators requiring us to conduct additional clinical trials or abandon product development
 programs; and
- delays in manufacturing, testing, releasing, validating or importing/exporting and/or distributing sufficient stable
 quantities of our product candidates and reference products for use in clinical trials or the inability to do any of
 the foregoing.

Any inability to successfully complete preclinical studies and clinical development could result in additional costs to us or impair our ability to generate revenue. In addition, if we make manufacturing or formulation changes to our product candidates, we may need to conduct additional clinical trials to bridge our modified product candidates to earlier versions.

Clinical development of biosimilars is different and can be more complex than clinical development programs for the reference products.

Clinical trials to show comparability of a biosimilar candidate to an approved reference product are new and differ from the clinical trials to gain approval for a new biologic. This may lead to difficulties in designing, initiating and enrolling trials for our product candidates. Some of these difficulties include:

- finding eligible patients willing to participate in clinical trials for biosimilar drugs;
- finding investigators willing to participate in biosimilar trials and who have access to appropriate patients;
- competition for sites and patients where new and competitive therapies are being tested;
- designing, enrolling and completing a clinical trial to demonstrate biosimilarity and, where appropriate, interchangeability; and
- working with investigators that are not as experienced in conducting biosimilarity or interchangeability trials, or with the regulations applicable to such clinical trials.

These requirements and difficulties may lead to data quality issues or an inability to start or finish a clinical trial, or may lead to significant delays, which in turn may lead to the inability to produce data for approval of our biosimilar product candidates

The results of previous clinical trials may not be predictive of future results, and the results of our current and planned clinical trials may not satisfy the requirements of the FDA, EMA or other foreign regulatory agencies.

Clinical failure can occur at any stage of clinical development. Clinical trials may produce negative or inconclusive results, and we or any of our current and future collaborators may decide, or regulators may require us, to conduct additional clinical or preclinical testing. We will be required to demonstrate with substantial evidence through well-controlled clinical trials that our product candidates are as safe and effective for use in a specific patient population as the respective reference products before we can seek regulatory approvals for their commercial sale. Success in early clinical trials does not mean that future larger registration clinical trials will be successful because product candidates in later-stage clinical trials may fail to demonstrate equivalent safety and efficacy to the satisfaction of the FDA, EMA and other foreign regulatory agencies despite having progressed through initial clinical trials. Product candidates that have shown promising

results in early clinical trials may still fail in subsequent confirmatory clinical trials. Similarly, the outcome of preclinical testing and early clinical trials may not be predictive of the success of later clinical trials, and interim results of a clinical trial do not necessarily predict final results. A number of companies in the pharmaceutical industry, including those with greater resources and experience than us, have suffered significant setbacks in advanced clinical trials, even after obtaining promising results in earlier clinical trials.

In addition, the design of a clinical trial can determine whether its results will support approval of a product and flaws in the design of a clinical trial may not become apparent until the clinical trial is well advanced. We may be unable to design and execute a clinical trial to support regulatory approval. In some instances, there can be significant variability in safety or efficacy results between different trials of the same product candidate due to numerous factors, including but not limited to changes in trial protocols, differences in size and type of the patient populations, adherence to the dosing regimen and the rate of dropout among clinical trial participants.

Further, our product candidates may not be approved even if they achieve their primary endpoints in Phase 3 clinical trials or registration trials. The FDA, EMA and other foreign regulatory agencies may disagree with our trial design and our interpretation of data from preclinical studies and clinical trials. In addition, any of these regulatory authorities may change the requirements for the approval of a product candidate even after reviewing and providing comments or advice on a protocol for a Phase 3 clinical trial that has the potential to result in FDA or other agencies' approval. We initially intend to seek approval for ONS-3010 for the treatment of plaque psoriasis and ONS-1045 for the treatment of non-squamous, non-small cell lung cancer. We have not yet determined the indication for which we will seek initial approval for ONS-1050 or our preclinical biosimilar product candidates. We plan to extrapolate to all indications in the approved product labeling of the reference product based on the sensitive population agreed by the FDA and EMA in the confirmatory clinical study. During review of the registration application, our justification for the extrapolation may not be accepted. Any of the regulatory authorities may approve a product candidate for fewer indications than we request or may grant approval contingent on the performance of costly post-marketing clinical trials. In addition, the FDA, EMA and other foreign regulatory agencies may not approve the additional indication extrapolations that we believe would be necessary or desirable for the successful commercialization of our product candidates.

Our product candidates may cause undesirable side effects or have other properties that could delay or prevent their regulatory approval, limit the commercial profile of an approved label or result in significant negative consequences following marketing approval, if granted.

As with most pharmaceutical products, use of our product candidates could be associated with side effects or adverse events, which can vary in severity and frequency. Side effects or adverse events associated with the use of our product candidates may be observed at any time, including in clinical trials or when a product is commercialized. Undesirable side effects caused by our product candidates could cause us or regulatory authorities to interrupt, delay or halt clinical trials and could result in a more restrictive label or the delay or denial of regulatory approval by the FDA or other foreign authorities. Results of our studies could reveal a high and unacceptable severity and prevalence of side effects, toxicity or other safety issues, and could require us to perform additional studies or halt development or sale of these product candidates or expose us to product liability lawsuits that will harm our business. In such an event, we may be required by regulatory agencies to conduct additional animal or human studies regarding the safety and efficacy of our product candidates that we have not planned or anticipated or our studies could be suspended or terminated, and the FDA or comparable foreign regulatory authorities could order us to cease further development of or deny or withdraw approval of our product candidates for any or all targeted indications. There can be no assurance that we will resolve any issues related to any product-related adverse events to the satisfaction of the FDA or any other regulatory agency in a timely manner, if ever, which could harm our business, prospects and financial condition.

Additionally, product quality characteristics have been shown to be sensitive to changes in process conditions, manufacturing techniques, equipment or sites and other related considerations, and as such, any manufacturing process changes we implement prior to or after regulatory approval could impact product safety.

Additionally, if one or more of our product candidates receives marketing approval, and we or others later identify undesirable side effects caused by such products, a number of potentially significant negative consequences could result, including but not limited to:

- regulatory authorities may withdraw approvals of such product;
- regulatory authorities may require additional warnings on the label;

- we may be required to create a Risk Evaluation and Mitigation Strategy plan, which could include a medication guide outlining the risks of such side effects for distribution to patients, a communication plan for healthcare providers and/or other elements to assure safe use:
- we could be sued and held liable for harm caused to patients; and
- our reputation may suffer.

Any of these events could prevent us from achieving or maintaining market acceptance of the particular product candidate, if approved, and could significantly harm our business, results of operations and prospects.

If we receive approval, regulatory agencies including the FDA, EMA and other foreign regulatory agency regulations require that we report certain information about adverse medical events if those products may have caused or contributed to those adverse events. The timing of our obligation to report would be triggered by the date we become aware of the adverse event as well as the nature of the event. We may fail to report adverse events we become aware of within the prescribed timeframe. We may also fail to appreciate that we have become aware of a reportable adverse event, especially if it is not reported to us as an adverse event or if it is an adverse event that is unexpected or removed in time from the use of our products. If we fail to comply with our reporting obligations, the FDA, EMA or other foreign regulatory agencies could take action including but not limited to criminal prosecution, the imposition of civil monetary penalties, seizure of our products or delay in approval or clearance of future products.

If other biosimilars of adalimumab (Humira), bevacizumab (Avastin) or trastuzumab (Herceptin) are determined to be interchangeable and our biosimilar product candidates for these reference products are not, our business would suffer

The FDA or other relevant regulatory authorities may determine that a proposed biosimilar product is "interchangeable" with a reference product, meaning that the biosimilar product may be substituted for the reference product without the intervention of the healthcare provider who prescribed the reference product, if the application includes sufficient information to show that the product is biosimilar to the reference product and that it can be expected to produce the same clinical result as the reference product in any given patient. If the biosimilar product may be administered more than once to a patient, the applicant must demonstrate that the risk in terms of safety or diminished efficacy of alternating or switching between the biosimilar product and the reference product is not greater than the risk of using the reference product without such alternation or switch. To make a final determination of biosimilarity or interchangeability, regulatory authorities may require additional confirmatory information beyond what we plan to initially submit in our applications for approval, such as more in-depth analytical characterization, animal testing or further clinical trials. Provision of sufficient information for approval may prove difficult and expensive.

We cannot predict whether any of our biosimilar product candidates will meet regulatory authority requirements for approval as a biosimilar product or as an interchangeable product in any jurisdiction. Furthermore, legislation governing interchangeability could differ by jurisdiction on a state or national level worldwide.

The concept of "interchangeability" is important in the U.S. market, potentially the largest global market for biosimilars, because the first biosimilar determined to be interchangeable with a particular reference product for any condition of use is eligible for a period of market exclusivity with respect to other interchangeable biosimilars. The FDA may not designate a second or subsequent biosimilar product as interchangeable with the reference product until the earlier of: (1) one year after the first commercial marketing of the first interchangeable product; (2) 18 months after resolution of a patent infringement suit instituted under 42 U.S.C. § 262(I)(6) against the applicant that submitted the application for the first interchangeable product, if a patent infringement suit instituted under 42 U.S.C. § 262(I)(6) against the applicant that submitted the application for the first interchangeable product is still ongoing; or (4) 18 months after approval of the first interchangeable product if the applicant that submitted the application for the first interchangeable product has not been sued under 42 U.S.C. § 262(I)(6). Thus, a determination that another company's product is interchangeable with the reference biologic before we obtain such a designation may delay the potential determination that our products are interchangeable with the reference product, which could harm our results of operations and delay, prevent or limit our ability to generate revenue.

If product liability lawsuits are brought against us, we may incur substantial liabilities and may be required to limit commercialization of our current or future product candidates, and our existing insurance coverage may not be sufficient to satisfy any liability that may arise.

Drug-related side effects could affect patient recruitment for clinical trials, the ability of enrolled patients to complete our studies or result in potential product liability claims. We currently carry product liability insurance in the amount of \$10.0 million per product candidate and we are required to maintain product liability insurance pursuant to certain of our license agreements. We may not be able to maintain insurance coverage at a reasonable cost or in sufficient amounts to protect us

against losses due to liability. A successful product liability claim or series of claims brought against us could negatively impact our results of operations and business. In addition, regardless of merit or eventual outcome, product liability claims may result in impairment of our business reputation, withdrawal of clinical trial participants, costs due to related litigation, distraction of management's attention from our primary business, initiation of investigations by regulators, substantial monetary awards to patients or other claimants, the inability to commercialize our product candidates and decreased demand for our product candidates, if approved for commercial sale. Furthermore, we may also not be able to take advantage of limitations on product liability lawsuits that apply to generic drug products, which could increase our exposure to liability for products deemed to be dangerous or defective.

Failure to obtain regulatory approval in any targeted jurisdiction would prevent us from marketing our products to a larger patient population and reduce our commercial opportunities.

We and our collaboration partners have not initiated marketing efforts in any jurisdiction. Subject to product approvals and relevant patent expirations, we or our collaboration partners intend to first market our products in the EU and Japan followed by the United States.

In order to market our products in the EU, the United States and other jurisdictions, we and our collaboration partners must obtain separate regulatory approvals and comply with numerous and varying regulatory requirements. The EMA is responsible for the regulation and recommendation for approval of human medicines in the EU. This procedure results in a single marketing authorization that is valid in all EU countries, as well as in Iceland, Liechtenstein and Norway. The time required to obtain approval abroad may differ from that required to obtain FDA approval. The foreign regulatory approval process may include all of the risks associated with obtaining FDA approval and we may not obtain foreign regulatory approvals on a timely basis, if at all. Approval by the FDA does not ensure approval by regulatory authorities in other countries, and approval by one foreign regulatory authority does not ensure approval by regulatory authorities in other foreign countries or by the FDA. We or our collaboration partners may not be able to file for regulatory approvals and may not receive necessary approvals to commercialize our products within the EU, the United States or in other jurisdictions. Failure to obtain these approvals would harm our business, financial condition and results of operations.

Approval in the United States requires a demonstration of biosimilarity to a U.S.-approved reference product. EMA approval requires a demonstration of biosimilarity to an EMA-approved reference product. Accordingly, for our global clinical program, bridging studies will be required in order to use the clinical testing in one jurisdiction in another. The bridging studies must demonstrate that the data demonstrating biosimilarity against the EMA-approved reference product are sufficient to demonstrate biosimilarity to the FDA-approved reference product, and vice versa. The need for such bridging studies may delay or limit our ability to market our products globally.

Even if we obtain regulatory approval for a product candidate, our products will remain subject to regulatory scrutiny.

If our product candidates are approved, they will be subject to ongoing regulatory requirements for manufacturing, labeling, packaging, storage, advertising, promotion, sampling, record-keeping, conduct of post-marketing studies and submission of safety, efficacy and other post-market information, including both federal and state requirements in the United States and requirements of comparable foreign regulatory authorities.

Manufacturers and manufacturing facilities are required to comply with extensive FDA, and comparable foreign regulatory authority, requirements, including ensuring that quality control and manufacturing procedures conform to current Good Manufacturing Practices, or cGMP, regulations. As such, we will be subject to continual review and inspections to assess compliance with cGMP and adherence to commitments made in any non-disclosure agreement, BLA or marketing authorization application, or MAA. Accordingly, we and our collaborators and suppliers must continue to expend time, money and effort in all areas of regulatory compliance, including manufacturing, production and quality control.

Any regulatory approvals that we or our collaboration partners receive for our product candidates may be subject to limitations on the approved indicated uses for which the product may be marketed or to the conditions of approval or may contain requirements for potentially costly additional clinical trials and surveillance to monitor the safety and efficacy of the product candidate. We will be required to report certain adverse reactions and production problems, if any, to the FDA and comparable foreign regulatory authorities. Any new legislation addressing drug safety issues could result in delays in product development or commercialization or increased costs to assure compliance. We will have to comply with requirements concerning advertising and promotion for our products. Promotional communications with respect to prescription drugs are subject to a variety of legal and regulatory restrictions and must be consistent with the information in the product's approved label. As such, we are not allowed to promote our products for indications or uses for which they do not have approval. If our product candidates are approved, we must submit new or supplemental applications and obtain

approval for certain changes to the approved products, product labeling or manufacturing process. We could also be asked to conduct post-marketing clinical trials to verify the safety and efficacy of our products in general or in specific patient subsets. An unsuccessful post-marketing study or failure to complete such a study could result in the withdrawal of marketing approval.

If a regulatory agency discovers previously unknown problems with an approved product, such as adverse events of unanticipated severity or frequency or problems with our manufacturing facilities or disagrees with the promotion, marketing or labeling of a product, such regulatory agency may impose restrictions on that product or us, including requiring withdrawal of the product from the market. If we fail to comply with applicable regulatory requirements, a regulatory agency or enforcement authority may, among other things:

- issue untitled and warning letters;
- impose civil or criminal penalties;
- suspend or withdraw regulatory approval;
- suspend any of our ongoing clinical trials;
- refuse to approve pending applications or supplements to approved applications submitted by us;
- impose restrictions on our operations, including closing our manufacturing facilities; or
- seize or detain products or require a product recall.

Any government investigation of alleged violations of law could require us to expend significant time and resources in response and could generate negative publicity. Any failure to comply with ongoing regulatory requirements may significantly and adversely affect our ability to commercialize and generate revenue from our products. If regulatory sanctions are applied or if regulatory approval is withdrawn, the value of our company and our operating results will be negatively impacted.

Adverse events involving a reference product, or other biosimilars of such reference product, may adversely affect our business.

In the event that use of a reference product, or other biosimilar for such reference product, results in unanticipated side effects or other adverse events, it is likely that our biosimilar product candidate will be viewed comparably and may become subject to the same scrutiny and regulatory sanctions as the reference product or other biosimilar, as applicable. Discovery of such unanticipated side effects or other adverse events in a reference product may result in changes to its approved labeling or indications, or even withdrawal of the reference product from the market. Additionally, if a biosimilar is approved for the same reference product as one of our product candidates and unanticipated side effects or other adverse events are associated with such third-party biosimilar in the future, the development and market for our product candidate could be adversely affected.

As a result, we may become subject to regulatory supervisions, clinical holds, product recalls or other regulatory actions for matters outside of our control that affect the reference product, or other biosimilar, as applicable, if and until we are able to demonstrate to the satisfaction of our regulators that our biosimilar product candidate is not subject to the same issues leading to the regulatory action as the reference product or other biosimilar, as applicable.

We may elect to seek licensure of our biosimilar products under the 351(a) (novel biologic) approval pathway instead of the 351(k) (biosimilar) approval pathway. This approval pathway may require us to undertake more expensive clinical trials and may present greater risk of failure than the 351(k) (biosimilar) approval pathway.

While we have elected to proceed under the 351(k) (biosimilar) approval pathway for ONS-3010, ONS-1045 and ONS-1050, we may elect for future products to pursue a 351(a) (novel biologic) approval pathway for a variety of clinical, regulatory and business reasons. The 351(a) (novel biologic) approval pathway generally requires three study phases (as contrasted with the two-study phases generally accepted by FDA for an application submitted under the 351(k) (biosimilar) pathway). Moreover, the 351(a) pathway generally does not allow for the possibility that a clinical trial in one indication can be extrapolated to multiple indications as is generally the case under the 351(k) (biosimilar) approval pathway. Pursuing licensure under the 351(a) (novel biologic) approval pathway may present disadvantages in terms of the requirements for additional clinical and nonclinical trials, clinical trial cost and failure risk, as well as the likelihood that multiple clinical trials would be required to obtain approval for all of the indications approved for the reference drug.

Risks Related to Commercialization of Our Product Candidates

We face intense competition and rapid technological change and the possibility that our competitors may develop therapies that are similar, more advanced or more effective than ours. Other biosimilars or "biobetters" of the reference products we are targeting may be approved and successfully commercialized before ours, which may adversely affect our financial condition and our ability to successfully commercialize our product capillates

We expect to enter highly competitive pharmaceutical markets. Successful competitors in the pharmaceutical markets have demonstrated the ability to effectively discover, obtain patents, develop, test and obtain regulatory approvals for products, as well as an ability to effectively commercialize, market and promote approved products. Numerous companies, universities and other research institutions are engaged in developing, patenting, manufacturing and marketing of products competitive with those that we are developing. Many of these potential competitors are large, experienced pharmaceutical companies that enjoy significant competitive advantages, such as substantially greater financial, research and development, manufacturing, personnel and marketing resources. These companies also have greater brand recognition and more experience in conducting preclinical testing and clinical trials of product candidates and obtaining FDA and other regulatory approvals of products.

We have competitors both in the United States and internationally, including major multinational pharmaceutical companies, specialty pharmaceutical companies and biotechnology companies. Some of the pharmaceutical and biotechnology companies we expect to compete with include, for example, Sandoz International GmbH, or Sandoz, Hospira, Inc., or Hospira, Amgen Inc., Pfizer Inc., Boehringer Ingelheim GmbH, or Boehringer, Teva Pharmaceutical Industries, Ltd., Samsung Bioepis, Ltd. (a Merck/Biogen/Samsung biosimilar venture) and Hanwha Chemical Corporation, as well as other smaller companies such as Coherus Biosciences, Inc. and Celltrion, Inc. We are currently aware that such competitors are engaged in the development of biosimilar product candidates to adalimumab (Humira), bevacizumab (Avastin) and trastuzumab (Herceptin), and expect that some of these competitors will commercialize their biosimilar products prior to us, which could materially harm our ability to gain market share.

Many of our competitors have substantially greater financial, technical and other resources, such as larger research and development staff and experienced marketing and manufacturing organizations. Additional mergers and acquisitions in the pharmaceutical industry may result in even more resources being concentrated in our competitors. As a result, these companies may obtain regulatory approval more rapidly than we are able to and may be more effective in selling and marketing their products. Smaller or early-stage companies may also prove to be significant competitors, particularly through collaborative arrangements with large, established companies. Our competitors may succeed in developing, acquiring or licensing on an exclusive basis, products that are more effective or less costly than any product candidate that we may develop; they may also obtain patent protection that could block our products; and they may obtain regulatory approval, product commercialization and market penetration earlier than we do. Biosimilar product candidates developed by our competitors may render our potential product candidates uneconomical, less desirable or obsolete, and we may not be successful in marketing our product candidates against competitors. Competitors may also assert in their marketing or medical education programs that their biosimilar products demonstrate a higher degree of biosimilarity to the reference products than do ours or other competitor's biosimilar products, thereby seeking to influence healthcare practitioners to select their biosimilar products rather than ours or other competitors. Competitors may also develop "biobetter" versions of reference products we are targeting. A biobetter is a product that contains alterations to the reference product's chemical structure or delivery system that provide a clinical benefit over the original reference product. Biobetters developed by our competitors may compete advantageously against our products and limit our market success

We expect other companies to seek approval to manufacture and market biosimilar versions of Humira, Avastin and Herceptin, in some cases, in advance of our commercialization timeline. If other biosimilars of Humira, Avastin or Herceptin are approved and successfully commercialized before ONS-3010, ONS-1045 or ONS-1050, respectively, we may never achieve significant market share for these products, our revenue would be reduced and, as a result, our business, prospects and financial condition could be harmed.

If efforts by developers and manufacturers of reference products to delay or limit the use of biosimilars are successful, our sales of biosimilar products may suffer.

Many developers and manufacturers of reference products have increasingly used legislative, regulatory and other means to delay regulatory approval and to seek to restrict competition from manufacturers of biosimilars. These efforts may include or have included:

 settling patent lawsuits with biosimilar companies, resulting in such patents remaining an obstacle for biosimilar approval by others;

- submitting Citizen Petitions to request the FDA Commissioner to take administrative action with respect to prospective and submitted biosimilar applications;
- appealing denials of Citizen Petitions in United States federal district courts and seeking injunctive relief to reverse approval of biosimilar applications;
- restricting access to reference brand products for equivalence and biosimilarity testing that interferes with timely biosimilar development plans:
- attempting to influence potential market share by conducting medical education with physicians, payors, regulators and patients claiming that biosimilar products are too complex for biosimilar approval or are too dissimilar from reference products to be trusted as safe and effective alternatives:
- implementing payor market access tactics that benefit their brands at the expense of biosimilars;
- seeking state law restrictions on the substitution of biosimilar products at the pharmacy without the intervention
 of a physician or through other restrictive means such as excessive recordkeeping requirements or patient and
 physician notification;
- seeking federal or state regulatory restrictions on the use of the same nonproprietary name as the reference brand product for a biosimilar or interchangeable biologic;
- seeking changes to the United States Pharmacopeia, an industry-recognized compilation of drug and biologic standards:
- obtaining new patents covering existing products or processes that could extend patent exclusivity for a number of years or otherwise delay the launch of biosimilars; and
- influencing legislatures so that they attach special patent extension amendments to unrelated federal legislation.

If an improved version of a reference product, such as Humira, Avastin or Herceptin, is developed or if the market for the reference product significantly declines, sales or potential sales of our biosimilar product candidates may suffer.

Originator companies may develop improved, or "biobetter," versions of a reference product or change the product formulation as part of a life cycle extension strategy and may obtain regulatory approval of the improved version under a new or supplemental BLA filed with the applicable regulatory authority. If the originator company succeeds in obtaining an approval of an improved biologic product, it may capture a significant share of the collective reference product market in the applicable jurisdiction and significantly reduce the market for the reference product and thereby the potential size of the market for our biosimilar product candidates. In addition, the improved product may be protected by additional patent rights that may subject our follow-on biosimilar product to claims of infringement.

Biologic reference products may also face competition as technological advances are made that may offer patients a more convenient form of administration or increased efficacy or as new products are introduced. As new products are approved that compete with the reference products to our biosimilar product candidates, sales of the reference products may be adversely impacted or rendered obsolete. If the market for the reference product is impacted, we may lose significant market share or experience limited market potential for our approved biosimilar products or product candidates, and the value of our product pipeline could be negatively impacted. As a result of the above factors, our business, prospects and financial condition could be harmed.

The commercial success of any current or future product candidate will depend upon the degree of market acceptance by physicians, patients, third-party payors and others in the medical community.

Even with the requisite approvals from the FDA and comparable foreign regulatory authorities, the commercial success of our product candidates will depend in part on the medical community, patients and third-party payors accepting our product candidates as medically useful, cost-effective and safe. Any product that we bring to the market may not gain market acceptance by physicians, patients, third-party payors and others in the medical community. The degree of market acceptance of any of our product candidates, if approved for commercial sale, will depend on a number of factors, including but not limited to:

- the safety and efficacy of the product as demonstrated to be "highly similar" in clinical trials, and potential advantages over competing treatments and the reference product;
- labeling or naming imposed by FDA or other regulatory agencies that suggest clinical differences between the product and the reference product;
- the publication of unfavorable safety or efficacy data concerning our product by third-parties;
- the prevalence and severity of any side effects, including any limitations or warnings contained in a product's approved labeling;

- the clinical indications for which approval is granted;
- whether we achieve an interchangeability designation in the United States, and if such designation has a material effect on the perception of equivalence;
- the possibility that a competitor may achieve interchangeability and we may not;
- relative convenience and ease of administration as compared to the reference product;
- the extent to which our product may be more or less similar to the reference product than competing biosimilar product candidates;
- recognition and acceptance of our product candidates over our competitors' products;
- prevalence of the disease or condition for which the product is approved;
- the cost of treatment, particularly in relation to competing treatments;
- the willingness of the target patient population to try biosimilar therapies and of physicians to prescribe these therapies;
- the strength of marketing and distribution support and timing of market introduction of competitive products;
- the extent to which the product is approved for inclusion on formularies of hospitals and managed care organizations;
- publicity concerning our products or competing products and treatments;
- the extent to which third-party payors provide coverage and adequate reimbursement for our product candidates. if approved: and
- our ability to maintain compliance with regulatory requirements.

Moreover, the market success of a biosimilar product, including widespread patient and doctor acceptance, may ultimately depend on whether it receives an interchangeability designation. This is particularly true if one or more competing biosimilars receives such a designation. Future laws and drug formulary rules requiring or facilitating automatic substitution of biosimilars for reference products at the pharmacy level may also be limited to biosimilars that have received an interchangeable designation.

The labeling requirements for a biosimilar product have not been fully developed and there is uncertainty as to how much of the reference product label a biosimilar applicant may or must copy, and the extent to which the applicant must distinguish its product from the reference product. The naming of biosimilars is also subject to significant uncertainty, and it is unclear whether biosimilar products will be required to bear names that distinguish them from their reference products. Differences between the labels and names of the biosimilar and reference product may make it more difficult for us to achieve market uptake for our product.

Even if our product candidate displays an equivalent or more favorable efficacy and safety profile in preclinical and clinical trials, market acceptance of the product candidate will not be fully known until after it is launched and may be negatively affected by a potential poor safety experience and the track record of other biosimilar product candidates. If market acceptance of our product is less than that of the reference product or competing biosimilars, the price of the product may need to be reduced or we may need to implement additional marketing endeavors in order to accrue market share, which will negatively affect profitability. Our efforts to educate the medical community and third-party payors on the benefits of our product candidates may require significant resources, may be under-resourced compared to large well-funded pharmaceutical entities and may never be successful. If our product candidates are approved but fail to achieve an adequate level of acceptance by physicians, patients, third-party payors and others in the medical community, we will not be able to generate sufficient revenue to become or remain profitable.

We currently have no marketing and sales organization. If we are unable to establish sales and marketing capabilities in jurisdictions for which we choose to retain commercialization rights, we may be unable to generate any revenue.

We currently have no marketing or sales organization. Our products have not yet been approved for sale, and we, as a company, have no experience selling and marketing our product candidates. To successfully commercialize any products that may result from our development programs, we will need to develop these capabilities, either on our own or with others. If our product candidates receive regulatory approval, we intend to establish a sales and marketing organization with technical expertise and supporting distribution capabilities to commercialize our product candidates in major markets where we may choose to retain commercialization rights. Doing so will be expensive, difficult and time-consuming. Any failure or delay in the development of our internal sales, marketing and distribution capabilities would adversely impact the commercialization of our products.

Further, given our lack of prior experience in marketing and selling biosimilar products, our initial estimate of the size of the required sales force may be materially more or less than the size of the sales force actually required to effectively commercialize our product candidates. As such, we may be required to hire substantially more sales representatives and medical support liaisons to adequately support the commercialization of our product candidates or we may incur excess costs as a result of hiring more sales representatives than necessary. With respect to certain geographical markets, we may enter into collaborations with other entities to utilize their local marketing and distribution capabilities, but we may be unable to enter into such agreements on favorable terms, if at all. If our future collaboration partners do not commit sufficient resources to commercialize our future products, if any, and we are unable to develop the necessary marketing capabilities on our own, we will be unable to generate sufficient product revenue to sustain our business. If we are unable to establish sales and marketing capabilities for any approved product, whether on our own or through collaborations, our results of operations will be negatively impacted.

We may need to enter into alliances with other companies that can provide capabilities and funds for the development and commercialization of our product candidates. If we are unsuccessful in forming or maintaining these alliances on favorable terms, our business could be harmed.

Because we have limited or no internal capabilities for late-stage product development, manufacturing, sales, marketing and distribution, we have found it necessary to enter into alliances with other companies. For example, we have entered into service agreements with inVentiv Health Clinical, LLC to assist us in conducting our Phase 1 and Phase 3 clinical trials for ONS-3010 and ONS-1045. Aside from our joint participation agreement with Hughai for ONS-3010, we do not have any agreements for the development and commercialization of our biosimilar product candidates for any major ex-U.S. markets, such as the EU and Japan. To date, we only have such agreements for smaller ex-U.S. markets. In particular, we have entered into a co-development and license agreement with Huahai to co-develop ONS-3010 and ONS-1045 for Huahai to commercialize in the greater China region. We have also entered into a license agreement with Liomont to develop and commercialize ONS-3010 and ONS-1045 in Mexico. Further, we have entered into license and collaboration agreements with IPCA to develop and commercialize ONS-3010, ONS-1045 and ONS-1050 in India, Sri-Lanka, Myanmar, Nepal and Bhutan. In the future, we may also find it necessary to form other alliances or joint ventures with major pharmaceutical companies to jointly develop and/or commercialize specific biosimilar product candidates. In such alliances, we would expect our collaboration partners to provide substantial capabilities in regulatory affairs, as well as sales and marketing. We may not be successful in entering into any such alliances. Even if we do succeed in securing such alliances, we may not be able to maintain them if, for example, development or approval of a product candidate is delayed or sales of an approved product are disappointing. If we are unable to secure or maintain such alliances we may not have the capabilities necessary to continue or complete development of our product candidates and bring them to market, which may have an adverse effect on our business.

In addition to commercialization capabilities, we may depend on our alliances with other companies to provide substantial additional funding for development and potential commercialization of our product candidates. We may not be able to obtain funding on favorable terms from these alliances, and if we are not successful in doing so, we may not have sufficient funds to develop a particular product candidate internally or to bring product candidates to market. Failure to bring our product candidates to market will prevent us from generating sales revenue, and this will substantially harm our business. Furthermore, any delay in entering into these alliances could delay the development and commercialization of our product candidates and reduce their competitiveness even if they reach the market. As a result, our business and operating results may be harmed.

Policies and practices governing the naming of biosimilar product candidates are neither fully established nor fully harmonized and are subject to debate and change. Failure to achieve a nonproprietary name sufficiently close to the reference product or be competitively disadvantaged in this regard, could adversely affect the commercial performance of our biosimilar product candidate.

United States Adopted Name, or USAN, and International Nonproprietary Names, or INN, two important bodies involved in nonproprietary nomenclature, have no policy for the naming of biosimilar product candidates, and products are named on a case by case basis. Non-glycosylated proteins can follow the approach established for small molecule generics, which is to retain the same nonproprietary name if it is synthesized by a different route provided the substance is the same. Glycosylated proteins from different sources are given distinct names, as these proteins are expected to differ in their glycosylation profile. The same approach is valid for all other modifications to the protein that can occur in a cell after the cell has finished making the protein. A system currently under discussion at the World Health Organization that would enable the clear definition of all similar biotherapeutic proteins would include the INN of the reference product in the first part of the name, and some form of biological qualifier that could uniquely identify the substance. Currently the FDA and EMA have final authority regarding names in the United States and the EU, respectively, and it is unclear how they will

handle nonproprietary nomenclature in the future. However, recent draft FDA guidance has recommended an approach to distinguish product manufacturers of the reference biologic, biosimilars, interchangeables, and related biologics by establishing nonproprietary names that are distinct from the reference product. For the reference biologic, FDA intends to use as a "core name" the name adopted by the USAN Council for the drug substance. For a biosimilar, interchangeable, or related biologic, the core name is the name of the drug substance contained in the relevant previously licensed product. Under FDA's proposed approach, the nonproprietary name designated for reference biologics, related biologics, and biosimilars will include a unique suffix in addition to the core name. FDA is seeking comment on whether the nonproprietary name for an interchangeable product should include a unique suffix, or should share the same suffix as its reference product. This policy could suggest to payors, providers and patients that our biosimilar product is different from the reference product, which may negatively affect the price we can charge, our sales and market share, which could harm our business. Notably, by affixing a random four letter suffix to the USAN, there is a potential for misuse that could cause misreporting of adverse events or otherwise to the wrong biosimilar product. If our biosimilars were wrongly reported as having caused adverse events or other negative outcomes, it could affect our brand and negatively harm our business.

The third-party coverage and reimbursement status of newly approved products is uncertain. Failure to obtain or maintain adequate coverage and reimbursement for new or current products could limit our ability to market those products and decrease our ability to generate revenue.

Pricing, coverage and reimbursement of our biosimilar product candidates, if approved, may not be adequate to support our commercial infrastructure. Our per-patient prices may not be sufficient to recover our development and manufacturing costs and potentially achieve profitability. The availability and adequacy of coverage and reimbursement by governmental and private payors are essential for most patients to be able to afford expensive treatments such as ours, if approved. Accordingly, sales of our product candidates will depend substantially, both domestically and abroad, on the extent to which the costs of our product candidates will be paid for by health maintenance, managed care, pharmacy benefit and similar healthcare management organizations or reimbursed by government authorities, private health insurers and other third-party payors. If coverage and reimbursement are not available, or are available only at insufficient levels, we may not be able to successfully commercialize our product candidates. Coverage decisions may depend upon clinical and economic standards that disfavor new drug products when more established or lower cost therapeutic alternatives are already available or subsequently become available. Even if coverage is provided, the approved reimbursement amount may not be adequate to allow us to establish or maintain pricing sufficient to realize a return on our investment.

There is significant uncertainty related to third-party coverage and reimbursement of newly approved products. In the United States, third-party payors, including private and governmental payors such as the Medicare and Medicaid programs, play an important role in determining the extent to which new drugs and biologics will be covered and reimbursed. The Medicare program covers certain individuals aged 65 or older or those who are disabled or suffering from end-stage renal disease. The Medicaid program, which varies from state to state, covers certain individuals and families who have limited financial means and/or certain disabilities. The Medicare and Medicaid programs increasingly are used as models for how private payors and other governmental payors develop their coverage and reimbursement policies for drugs and biologics. It is difficult to predict at this time what third-party payors will decide with respect to the coverage and reimbursement for our biosimilar product candidates, if approved. In addition, in the United States, no uniform policy of coverage and reimbursement for biologics exists among third-party payors. Therefore, coverage and reimbursement for biologics can differ significantly from payor to payor. As a result, the process for seeking favorable coverage determinations often is time-consuming and costly and may require us to provide scientific and clinical support for the use of our products to each payor separately, with no assurance that coverage and adequate reimbursement will be obtained. Our inability to promptly obtain coverage and profitable reimbursement rates from both government-funded and private payors for any approved products that we develop could have an adverse effect on our operating results, our ability to raise capital needed to commercialize products and our overall financial condition.

Outside the United States, pharmaceutical businesses are generally subject to extensive governmental price controls and other market regulations. We believe the increasing emphasis on cost-containment initiatives in the EU, Canada and other countries has and will continue to put pressure on the pricing and usage of our product candidates. In many countries, the prices of medical products are subject to varying price control mechanisms as part of national health systems. Other countries allow companies to fix their own prices for medical products, but monitor and control company profits. Additional foreign price controls or other changes in pricing regulation could restrict the amount that we are able to charge for our product candidates. Accordingly, in markets outside the United States, the reimbursement for our products may be reduced compared with the United States and may be insufficient to generate commercially reasonable revenue and profits.

Moreover, increasing efforts by governmental and third-party payors in the United States and abroad to control healthcare costs may cause such organizations to limit both coverage and the level of reimbursement for new products approved and

as a result, they may not cover or provide adequate payment for our product candidates. While cost containment practices generally benefit biosimilars, severe cost containment practices may adversely affect our product sales. We expect to experience pricing pressures in connection with the sale of any of our product candidates due to the trend toward managed healthcare, the increasing influence of health maintenance organizations and additional legislative changes.

Our biosimilar product candidates, if approved, will face price competition from both the respective reference products and other biosimilars. This price competition could exceed our capacity to respond, negatively impacting our market share and revenue as well as adversely affecting the overall financial health and attractiveness of the market for the biosimilar.

Successful competitors in the biosimilar market will likely have the ability to effectively compete on price through payors and their third-party administrators who exert downward pricing pressure. It is possible our competitors' compliance with price discounting demands in exchange for market share could exceed our capacity to respond in kind and reduce market prices beyond our expectations. In addition, the RPS may compete effectively on price and limit our ability to accrue market share. Such practices may limit our and our collaboration partners' ability to increase market share and will also impact profitability.

Risks Related to Our Reliance on Third Parties

We rely on third parties to conduct our preclinical and clinical trials and perform other tasks for us. If these third parties do not successfully carry out their contractual duties, meet expected deadlines or comply with regulatory requirements, we may not be able to obtain regulatory approval for or commercialize our product candidates and our business could be harmed.

We have relied upon and plan to continue to rely upon CROs to monitor and manage data for our ongoing preclinical and clinical programs. We rely on these parties for execution of our preclinical and clinical trials and we can only control certain aspects of their activities. Nevertheless, we are responsible for ensuring that each of our studies is conducted in accordance with the applicable protocol, legal, regulatory and scientific requirements and standards and our reliance on the CROs does not relieve us of our regulatory responsibilities. We and our CROs and other vendors are required to comply with cGMP, GCP, and Good Laboratory Practices, or GLP, which are regulations and guidelines enforced by the FDA, the Competent Authorities of the Member States of the EEA and comparable foreign regulatory authorities for all of our product candidates in clinical development. Regulatory authorities enforce these regulations through periodic inspections of study sponsors, principal investigators, study sites and other contractors. If we, any of our CROs, service providers or investigators fail to comply with applicable regulations or GCPs, the data generated in our preclinical and clinical trials may be deemed unreliable and the FDA, EMA or comparable foreign regulatory authorities may require us to perform additional preclinical and clinical trials before approving our marketing applications. We cannot assure you that upon inspection by a given regulatory authority, such regulatory authority will determine that any of our clinical trials comply with GCP requirements. In addition, our clinical trials must be conducted with products produced under cGMP regulations. Failure to comply by any of the participating parties or ourselves with these regulations may require us to repeat clinical trials, which would delay the regulatory approval process. Moreover, our business may be implicated if our CROs or any other participating parties violate federal or state fraud and abuse or false claims laws and regulations or healthcare privacy and security laws.

If any of our relationships with any of these third-party CROs terminate, we may not be able to enter into arrangements with alternative CROs or do so on commercially reasonable terms. In addition, our CROs are not our employees, and except for remedies available to us under our agreements with such CROs, we cannot control whether or not they devote sufficient time and resources to our on-going preclinical and clinical programs. If CROs do not successfully carry out their contractual duties or obligations or meet expected deadlines, if they need to be replaced or if the quality or accuracy of the data they obtain is compromised due to the failure to adhere to our protocols, regulatory requirements or for other reasons, our clinical trials may be extended, delayed or terminated and we may not be able to obtain regulatory approval for or successfully commercialize our product candidates. CROs may also generate higher costs than anticipated. As a result, our results of operations and the commercial prospects for our product candidates would be harmed, our costs could increase and our ability to generate revenue could be delayed.

Changing or adding additional CROs involves additional cost and requires management time and focus. In addition, there is a natural transition period when a new CRO commences work. As a result, delays may occur, which can negatively impact our ability to meet our desired clinical development timelines. We may encounter challenges or delays in the future and these delays or challenges may have an adverse effect on our business, financial condition and prospects.

We manufacture bulk drug substance for preclinical and clinical supplies of our product candidates in our inhouse facility. We also intend to manufacture bulk drug substance for commercial sale in our facility. Our business could be harmed if our facility is damaged or we otherwise fail to manufacture our product candidates at the necessary quantity or quality levels.

If we are unable to manufacture sufficient supplies of our product candidates, our development efforts would be delayed, which would adversely affect our business and prospects. In addition, our failure to comply with applicable regulations

could result in sanctions being imposed on us, including fines, injunctions, civil penalties, delays, suspension or withdrawal of approvals, license revocation, seizures or recalls of products, operating restrictions and criminal prosecutions, any of which could significantly and adversely affect supplies of our product candidates or any other product candidates or products that we may develop.

If any of our product candidates are approved, in order to produce the quantities necessary to meet anticipated market demand, we may need to increase our manufacturing capacity. If we are unable to produce our product candidates and in sufficient quantities to meet the requirements for the launch of these products or to meet future demand, our revenue and gross margins could be adversely affected.

Our manufacturing depends on our suppliers. For single-use technology, we depend on specialty-manufactured bags and our reliability on the supply of such bags can impact manufacturing. In addition, the quality of such bags may vary, and in certain rare circumstances, the bag components may leak into the product, which would make the product unsuitable. We also depend on the timely supply and quality of all raw materials, which are crucial to the successful manufacturing of our products. Further, we depend on our fill-finish partners to ensure quality products and our partners' failure to deliver a consistent supply of high-quality products is a risk to the business.

We have never manufactured commercial scale quantities in our facilities and we may face challenges in ensuring a consistent supply for global markets.

Any adverse developments affecting the manufacturing operations of our biosimilar product candidates could substantially increase our costs and limit supply for our product candidates.

The process of manufacturing our product candidates is complex, highly regulated and subject to several risks, including but not limited to:

- failure to establish contracts with fill-finish contract manufacturing organization or CMOs, and device vendors;
- product loss due to contamination, equipment failure or improper installation or operation of equipment or vendor or operator error;
- failure to maintain fermentation or other manufacturing conditions necessary to achieving biosimilarity to the reference product;
- infringing intellectual property rights of third parties relating to manufacturing and quality testing;
- failure to achieve or maintain compliance with FDA's requirements for acceptance of our manufacturing facilities;
 and
- labor shortages, natural disasters and power failures.

Even minor deviations from normal manufacturing processes for any of our product candidates could result in reduced production yields, product defects and other supply disruptions. In addition, if we require a change in CMO, this will add time along with financial and personnel resources to change manufacturing sites. If microbial, viral or other contaminations are discovered in our product candidates or in our manufacturing facilities, our facilities may need to be closed for an extended period of time to investigate and remedy the contamination.

Any adverse developments affecting manufacturing operations for our product candidates may result in shipment delays, inventory shortages, lot failures, withdrawals or recalls or other interruptions in the supply of our product candidates. We may also have to take inventory write-offs and incur other charges and expenses for product candidates that fail to meet specifications, undertake costly remediation efforts or seek more costly manufacturing alternatives.

We expect to depend on third parties for the commercialization of our biosimilar product candidates in certain major markets for ONS-3010, ONS-1045 and ONS-1050 outside the United States, and their failure to commercialize in those markets could harm our business and operating results.

One prong of our strategy is to maximize the value of our pipeline by retaining development and commercialization rights in the United States and continuing to selectively out-license to ex-U.S. markets. Accordingly, we will need to identify third-parties and then negotiate the terms of the development and commercialization agreements for major ex-U.S. markets, such as the EU and Japan. We may not be successful in identifying contract counterparties, and we may not be able to reach agreements with such parties on terms that are as favorable to our company as we would anticipate. Although we currently have in place licensing agreements for commercialization of ONS-3010 and ONS-1045, these are for smaller markets where we would not otherwise intend to commercialize our biosimilar product candidates, such as China, Mexico and India, among others. If these entities fail to exercise commercially reasonable efforts to market and sell our products in their respective licensed jurisdictions or are otherwise ineffective in doing so, our business will be harmed and we may not be able to adequately remedy the harm through negotiation, litigation, arbitration or termination of the license agreements.

Moreover, any disputes with our collaboration partners concerning the adequacy of their commercialization efforts will substantially divert the attention of our senior management from other business activities and will require us to incur substantial legal costs to fund litigation or arbitration proceedings.

In the event that any of our license agreements terminate, we may need to find another partner in those markets to commercialize and in certain instances, manufacture our biosimilar product candidates. Further, upon any such termination, our contract counterparties may still have the right to commercialize these biosimilar product candidates in such markets, which may affect our ability to commercialize in the same markets.

We are required to co-fund the development of, and proportionately share in the revenue from, the commercialization of ONS-3010 in the United States, Canada, EU, Japan, Australia and New Zealand under a joint participation agreement with Huahai. We may also be required to form a joint venture to further co-develop and commercialize ONS-3010 with Huahai in the agreed countries, if so requested by Huahai.

We currently have a joint participation arrangement with Huahai that provides for the co-funding of the development of ONS-3010 in the United States, Canada, EU, Japan, Australia and New Zealand and the proportionate sharing of the revenue from commercialization of ONS-3010 in such countries. We could also be required to further co-develop and commercialize ONS-3010 with Huahai in the agreed countries pursuant to a joint venture, if so requested by Huahai, as contemplated by our joint participation agreement. Although we had the option to terminate this joint participation agreement by exercising our option to pay Huahai a total of \$28.0 million, including an \$11.0 million initial payment, we did not make the \$11.0 million initial payment within the time frame required. Under the joint participation agreement, assuming Huahai funds its proportionate share of development costs incurred after completion of the "Phase-3 Ready Package" for ONS-3010, we will have a 49% value ownership interest with Huahai having a 51% value ownership interest in ONS-3010. Accordingly, our share of any potential revenues from the successful commercialization of ONS-3010 in the agreed countries, including major markets such as the United States and EU, would also be in proportion to such ownership interests. While we anticipate that we will each act in accordance with the terms of our agreement for the joint development and commercialization of ONS-3010, we cannot control Huahai, nor can we predict with any certainty that our interests will be aligned and that we will successfully collaborate.

We entered into a new lease for additional manufacturing and research and development space and our business may be interrupted if these facilities are not ready for occupation in time to implement our expansion efforts, which could impact our ability to advance our early-stage preclinical pipeline and any future product candidates.

We have entered into a lease for a new facility in our current industrial complex, which commences in March 2016. We intend to build-out this facility as an additional state-of-the-art development infrastructure, which we will occupy in phases as needed. There can be no assurance that the new space will be prepared and ready in time for our move-in. Further, the expansion could disrupt our current development and manufacturing operations, resulting in an inability to meet our deadlines and leading to a slow realization of the efficiencies and capacity anticipated from such expansion. Adverse consequences resulting from a delay in the expansion could harm our relationships with our license and collaboration partners, and further affect our ability to develop and commercialize our biosimilar product candidates. In addition, such expansions of our manufacturing and research and development capabilities may increase our costs. Any of the above could delay regulatory approval and commercialization of our current early-stage preclinical and future biosimilar product candidates. All of the foregoing could result in substantial costs to us and could result in material interruption to our business and operations.

We currently engage single source suppliers for clinical trial services and multiple source suppliers for fill-finish manufacturing and product testing of our biosimilar product candidates. The loss of any of these suppliers, or any future single source suppliers, could harm our business.

Our clinical stage biosimilar product candidates are currently fill-finished by Hospira and Ajinomoto Althea, Inc., or Althea. As such, we are heavily dependent on Hospira and Althea for supplying us with finished product candidates. Although we believe that there are alternate sources for this service, we cannot assure you that identifying and establishing new relationships would not result in significant delay in the development of our biosimilar product candidates. Additionally, we may not be able to enter into arrangements with alternative vendors on commercially reasonable terms, or at all. A delay in the development of our biosimilar product candidates or having to enter into a new agreement with a different third party on less favorable terms than we have with our current suppliers could negatively impact our business.

We are subject to significant regulation with respect to manufacturing our product candidates. Our manufacturing facilities may not continue to meet regulatory requirements or may not be able to meet supply demands

Components of a finished therapeutic product approved for commercial sale or used in late-stage clinical trials must be manufactured in accordance with cGMP and other applicable regulations. These regulations govern manufacturing processes and procedures (including record keeping) and the implementation and operation of quality systems to control

and assure the quality of investigational products and products approved for sale. Poor control of production processes can lead to the introduction of contaminants or to inadvertent changes in the properties or stability of our product candidates that may not be detectable in final product testing. We must supply all necessary documentation in support of a BLA or MAA on a timely basis and must adhere to GLP and cGMP regulations enforced by the FDA and other regulatory agencies through their facilities inspection program. We have never produced a commercially approved pharmaceutical product at our facilities and therefore have not obtained the requisite regulatory authority approvals to do so. Our facilities and quality systems must pass a pre-approval inspection for compliance with the applicable regulations as a condition of regulatory approval of our product candidates or any of our other potential products. In addition, the regulatory authorities may, at any time, audit or inspect our manufacturing facility or our associated quality systems for compliance with the regulations applicable to the activities being conducted. If our facilities do not pass a pre-approval facility inspection, regulatory approval of the products may not be granted or may be substantially delayed until any violations are corrected to the satisfaction of the regulatory authority, if ever.

The regulatory authorities also may, at any time following approval of a product for sale, audit our manufacturing facilities. If any such inspection or audit identifies a failure to comply with applicable regulations or if a violation of our product specifications or applicable regulations occurs independent of such an inspection or audit, the relevant regulatory authority may require remedial measures that may be costly and time-consuming for us to implement and that may include the temporary or permanent suspension of a clinical trial or commercial sales or the temporary or permanent closure of our facility. Any such remedial measures could harm our business.

If we fail to maintain regulatory compliance, the FDA or other applicable regulatory authority can impose regulatory sanctions including, among other things, refusal to approve a pending application for a new biologic product, withdrawal of an approval or suspension of production. As a result, our business, financial condition and results of operations may be harmed

These factors could cause us to incur higher costs and could cause the delay or termination of clinical trials, regulatory submissions, required approvals or commercialization of our product candidates.

Risks Related to Intellectual Property

If we infringe or are alleged to infringe intellectual property rights of third parties, our business could be harmed. Third-party claims of intellectual property infringement may prevent or delay our development and commercialization efforts.

Our commercial success depends in large part on avoiding infringement of the patents and proprietary rights of third parties. There have been many lawsuits and other proceedings involving patent and other intellectual property rights in the pharmaceutical industry, including patent infringement lawsuits, interferences, oppositions and reexamination proceedings before the U.S. Patent and Trademark Office, or USPTO, and corresponding foreign patent offices. Numerous U.S. and foreign issued patents and pending patent applications, which are owned by third parties, exist in the fields in which we are developing product candidates. As the pharmaceutical industry expands and more patents are issued, the risk increases that our product candidates may be subject to claims of infringement of the patent rights of third parties.

Our research, development and commercialization activities may infringe or otherwise violate or be claimed to infringe or otherwise violate patents owned or controlled by other parties. The companies that originated the products for which we intend to introduce biosimilar versions, such as AbbVie, Inc., or AbbVie, and Genentech, Inc., or Genentech, as well as other competitors (including other companies developing biosimilars) have developed worldwide patent portfolios of varying sizes and breadth, many of which are in fields relating to our business, and it may not always be clear to industry participants, including us, which patents cover various types of products, formulations, manufacturing processes or methods of use.

Third parties may assert that we are employing their proprietary technology without authorization. There may be third-party patents or patent applications with claims to compositions, formulations, methods of manufacture or methods for treatment related to the use or manufacture of our product candidates. We have conducted patent searches for third-party patents with respect to each of our lead product candidates, and are aware of third-party patent families with claims that, if valid and enforceable, could be construed to cover such product candidates or their respective methods of manufacture or use. Some of these patents have expiration dates that could extend reference product exclusivity past our anticipated product launch dates. We cannot guarantee that any of our analyses are complete and thorough, nor can we be sure that we have identified each and every patent and pending application in the United States and abroad that is relevant or necessary to the commercialization of our product candidates. Moreover, because patent applications can take many years to issue,

there may be currently pending patent applications that may later result in issued patents covering our product candidates. We have not yet completed freedom to operate analysis on our early-stage pipeline or products we are evaluating for inclusion in our future biosimilar product pipeline and therefore, we do not know whether or to what extent these products may be subject to unexpired patents. The existence of any patent with valid and enforceable claims covering one or more of our product candidates could cause substantial delays in our ability to introduce a biosimilar candidate into the U.S. market if the term of such patent extends beyond our desired product launch date.

There may also be patent applications that have been filed but not published and if such applications issue as patents, they could be asserted against us. For example, in most cases, a patent filed today would not become known to industry participants for at least 18 months given patent rules applicable in most jurisdictions that do not require publication of patent applications until 18 months after filing. Moreover, we may face claims from non-practicing third-party entities that have no relevant product revenue and against whom our own patent portfolio may have no deterrent effect. In addition, the scope of patent claims is subject to interpretation by the courts, and the interpretation is not always uniform. If we are sued for patent infringement, we would need to demonstrate that our product candidates, products or methods either do not infringe the asserted patent claims or that the claims are invalid and/or unenforceable, and we may not be successful. Proving that a patent is invalid or unenforceable is difficult. For example, in the United States, proving invalidity requires a showing of clear and convincing evidence to overcome the presumption of validity enjoyed by issued patents. In proceedings before courts in the EU, the burden of proving invalidity of a patent also usually rests on the party alleging invalidity. Even if we are successful in litigation, we may incur substantial costs and the time and attention of our management and scientific personnel could be diverted, which could harm our business. In addition, we may not have sufficient resources to bring these actions to a successful conclusion.

Third parties could bring claims against us that would cause us to incur substantial expenses and, if successful against us, could cause us to pay substantial monetary damages. The outcome of intellectual property litigation is subject to uncertainties that cannot be adequately quantified in advance. If a patent infringement suit were brought against us, we could be forced to stop or delay research, development, manufacturing or sales of the product or product candidate that is the subject of the suit. Ultimately, we could be prevented from commercializing a product or be forced to cease some aspect of our business operations if, as a result of actual or threatened patent infringement claims, we are unable to enter into licenses on commercially acceptable terms or at all. If, as a result of patent infringement claims or to avoid potential claims, we choose or are required to seek licenses from third parties, these licenses may not be available on acceptable terms or at all. Even if we are able to obtain a license, the license may obligate us to pay substantial license fees or royalties or both, and the rights granted to us might be nonexclusive, which could result in our competitors gaining access to the same intellectual property.

Parties making claims against us may obtain injunctive or other equitable relief, which could effectively block our ability to further develop and commercialize one or more of our product candidates. Defense of these claims, regardless of their merit, would likely involve substantial litigation expense and would likely be a substantial diversion of employee resources from our business. In the event of a successful claim of infringement against us, we may, in addition to being blocked from the market, have to pay substantial monetary damages, including treble damages and attorneys' fees for willful infringement, pay royalties, redesign our infringing products or obtain one or more licenses from third parties, which may be impossible or require substantial time and monetary expenditure.

In addition to infringement claims against us, we may become a party to other patent litigation and other proceedings, including interference, derivation or post-grant proceedings declared or granted by the USPTO and similar proceedings in foreign countries, regarding intellectual property rights with respect to our current or future products. An unfavorable outcome in any such proceedings could require us to cease using the related technology or to attempt to license rights to it from the prevailing party or could cause us to lose valuable intellectual property rights. Our business could be harmed if the prevailing party does not offer us a license on commercially reasonable terms, if any license is offered at all. Litigation or other proceedings may fail and, even if successful, may result in substantial costs and distract our management and other employees. We may also become involved in disputes with others regarding the ownership of intellectual property rights.

Third parties may submit applications for patent term extensions in the United States or other jurisdictions where similar extensions are available and/or Supplementary Protection Certificates in the EU states (including Switzerland) seeking to extend certain patent protection that, if approved, may interfere with or delay the launch of one or more of our biosimilar product candidates.

The cost to us of any patent litigation or other proceeding, even if resolved in our favor, could be substantial. Patent litigation and other proceedings may fail, and even if successful, may result in substantial costs and distract our management and other employees. The companies that originated the products for which we intend to introduce biosimilar

versions, as well as other competitors (including other biosimilar companies) may be able to sustain the costs of such litigation or proceedings more effectively than we can because of their substantially greater financial resources. Uncertainties resulting from the initiation and continuation of patent litigation or other proceedings could impair our ability to compete in the marketolace.

So called "submarine" patents may be granted to our competitors that may significantly alter our launch timing expectations, reduce our projected market size, cause us to modify our product or process or block us from the market altogether.

The term "submarine" patent has been used in the pharmaceutical industry and in other industries to denote a patent issuing from a U.S. application with an effective filing date prior to June 8, 1995 that was not published, publically known or available prior to its grant. Submarine patents add substantial risk and uncertainty to our business. Submarine patents may be issued to our competitors covering our biosimilar product candidates or our pipeline candidates and thereby cause significant market entry delay, defeat our ability to market our product candidates or cause us to abandon development and/or commercialization of a product candidate.

The issuance of one or more submarine patents may harm our business by causing substantial delays in our ability to introduce a biosimilar candidate into the U.S. market.

We may not identify relevant patents or may incorrectly interpret the relevance, scope or expiration of a patent, which might adversely affect our ability to develop and market our products.

We cannot guarantee that any of our patent searches or analyses, including but not limited to the identification of relevant patents, the scope of patent claims or the expiration of relevant patents, are complete and thorough, nor can we be certain that we have identified each and every patent and pending application in the United States and abroad that is relevant to or necessary for the commercialization of our product candidates in any jurisdiction.

The scope of a patent claim is determined by an interpretation of the law, the written disclosure in a patent and the patent's prosecution history. Our interpretation of the relevance or the scope of a patent or a pending application may be incorrect, which may negatively impact our ability to market our products or pipeline candidates. We may incorrectly determine that our products are not covered by a third party patent. Further, we may conclude that a well-informed court or other tribunal would find the claims of a relevant third-party patent to be invalid based on prior art, enablement, written description, or other ground, and that conclusion may be incorrect, which may negatively impact our ability to market our products or pipeline molecules.

Many patents may cover a marketed product, including but not limited to the composition of the product, methods of use, formulations, cell line constructs, vectors, growth media, production processes and purification processes. The identification of all patents and their expiration dates relevant to the production and sale of a reference product is extraordinarily complex and requires sophisticated legal knowledge in the relevant jurisdiction. It may be impossible to identify all patents in all jurisdictions relevant to a marketed product. We may not identify all relevant patents, or incorrectly determine their expiration dates, which may negatively impact our ability to develop and market our products.

Our failure to identify and correctly interpret relevant patents may negatively impact our ability to develop, market and commercialize our products.

We may become involved in lawsuits to protect or enforce any future patents, which could be expensive, timeconsuming and unsuccessful.

Although we have no issued patents, when and if we do obtain issued patents, we may discover that competitors are infringing those patents. Expensive and time-consuming litigation may be required to enforce our patents. If we or one of our collaboration partners were to initiate legal proceedings against a third party to enforce a patent covering one of our product candidates, the defendant could counterclaim that the patent covering our product candidate is invalid and/or unenforceable. In patent litigation in the United States, defendant counterclaims alleging invalidity and/or unenforceability are commonplace. Grounds for a validity challenge could be an alleged failure to meet any of several statutory requirements, including but not limited to lack of novelty, obviousness or non-enablement. Grounds for an unenforceability assertion could include an allegation that someone involved in the prosecution of the patent withheld relevant or material information related to the patentability of the invention from the USPTO or made a misleading statement during prosecution. The outcome following legal assertions of invalidity and unenforceability is unpredictable, and there is a risk that a court will decide that a patent of ours is invalid or unenforceable, in whole or in part, and that we do not have the right to stop the other party from using the invention at issue on the grounds that our patent claims do not cover the invention. An adverse outcome in

litigation or proceeding involving our patents could limit our ability to assert our patents against those parties or other competitors, and may curtail or preclude our ability to exclude third parties from making and selling similar or competitive products. Any of these occurrences could adversely affect our competitive business position, business prospects and financial condition. Even if we establish infringement, the court may decide not to grant an injunction against further infringing activity and instead award only monetary damages, which may or may not be an adequate remedy.

Similarly, if we assert trademark infringement claims, a court may determine that the marks we have asserted are invalid or unenforceable, or that the party against whom we have asserted trademark infringement has superior rights to the marks in question. In this case, we could ultimately be forced to cease use of such trademarks.

Furthermore, because of the substantial amount of discovery required in connection with intellectual property litigation, there is a risk that some of our confidential information could be compromised by disclosure during any litigation we initiate to enforce our patents. There could also be public announcements of the results of hearings, motions or other interim proceedings or developments. If securities analysts or investors perceive these results to be negative, it could have a negative impact on the price of our common stock. Moreover, there can be no assurance that we will have sufficient financial or other resources to file and pursue such infringement claims, which typically last for years before they are concluded. Even if we ultimately prevail in such claims, the monetary cost of such litigation and the diversion of the attention of our management and scientific personnel could outweigh any benefit we receive as a result of the proceedings.

We may be subject to claims that our employees, consultants or independent contractors have wrongfully used or disclosed confidential information of third parties or that our employees have wrongfully used or disclosed alleged trade secrets of their former employers.

We employ individuals and retain independent contractors and consultants and members on our board of directors who were previously employed at universities or other pharmaceutical companies, including our competitors or potential competitors. For example, our Chairman, President and Chief Executive Officer, Pankaj Mohan, Ph.D., our Chief Medical Officer, Kenneth M. Bahrt, M.D., our Senior Vice President of Business Strategy & Development, Stephen J. McAndrew, Ph.D., our Senior Vice President of Process Development & Manufacturing, Scott Gangloff, and our Vice President of Regulatory Affairs, Elizabeth A. Yamashita, are former employees of Bristol-Myers Squibb Company. Further, Dr. Mohan and Dr. Bahrt are former employees of Genentech, which is the reference product sponsor of bevacizumab (Avastin), for which we seek to develop ONS-1045 as a biosimilar, and trastuzumab (Herceptin), for which we seek to develop ONS 1050 as a biosimilar, and Kogan Bao, Ph.D., our new Vice President of Analytical Sciences, is a former employee of Amgen, Inc., which is the reference product sponsor of denosumab (Prolia/Xgeva), for which we seek to develop ONS-4010 as a biosimilar. Additionally, Dr. McAndrew was a former employee of Roche. Two members of our board of directors, Scott Canute and Dr. Mohan, were former employees of Eli Lilly and Company and Ms. Yamashita was a former employee of ImClone Systems Inc., a subsidiary of Eli Lilly and Company, which is the reference product sponsor of cetuximab (Erbitux), for which we seek to develop ONS-1055 as a biosimilar. Although we try to ensure that our employees, consultants and independent contractors do not use the proprietary information or know-how of others in their work for us and we are not currently subject to any claims that they have done so, we may in the future be subject to such claims. Litigation may be necessary to defend against these claims. If we fail in defending any such claims, in addition to paying monetary damages, we may lose valuable intellectual property rights or personnel, which could adversely impact our business. Even if we are successful in defending against such claims, litigation could result in substantial costs and be a distraction to management and other employees.

In addition, while we typically require our employees, consultants and contractors who may be involved in the development of intellectual property to execute agreements assigning such intellectual property to us, we may be unsuccessful in executing such an agreement with each party who in fact develops intellectual property that we regard as our own, which may result in claims by or against us asserting ownership of such intellectual property. If we fail in prosecuting or defending any such claims, in addition to paying monetary damages, we may lose valuable intellectual property rights. Even if we are successful in prosecuting or defending against such claims, litigation could result in substantial costs and be a distraction to our senior management and scientific personnel.

We currently have no issued patents. If we are unable to obtain and maintain effective patent rights for our product candidates or any future product candidates, we may not be able to prevent competitors from using technologies we consider important in our successful development and commercialization of our product candidates, resulting in loss of any potential competitive advantage our patents may have otherwise afforded us.

While our principal focus in matters relating to intellectual property is to avoid infringing the valid and enforceable rights of third parties, we also rely upon a combination of patents, trade secret protection and confidentiality agreements to protect our own intellectual property related to our product candidates and development programs. Our ability to enjoy any

competitive advantages afforded by our own intellectual property depends in large part on our ability to obtain and maintain patents and other intellectual property protection in the United States and in other countries with respect to various proprietary elements of our product candidates, such as, for example, our product formulations and processes for manufacturing our products and our ability to maintain and control the confidentiality of our trade secrets and confidential information critical to our business.

We have sought to protect our proprietary position by filing patent applications in the United States and abroad related to our products that are important to our business. This process is expensive and time-consuming, and we may not be able to file and prosecute all necessary or desirable patent applications at a reasonable cost or in a timely manner. It is also possible that we will fail to identify patentable aspects of our research and development output before it is too late to obtain patent protection. There is no guarantee that any patent application we file will result in an issued patent having claims that protect our products; and, as a result, we may not be able to effectively prevent others from commercializing competitive products. Additionally, while the basic requirements for patentability are similar across jurisdictions, each jurisdiction has its own specific requirements for patentability. We cannot guarantee that we will obtain identical or similar patent protection covering our products in all jurisdictions where we file patent applications.

The patent positions of biopharmaceutical companies generally are highly uncertain and involve complex legal and factual questions for which legal principles remain unresolved. As a result, the patent applications that we own or license may fail to result in issued patents with claims that cover our product candidates in the United States or in other foreign countries for many reasons. There is no assurance that all potentially relevant prior art relating to our patents and patent applications has been found, considered or cited during patent prosecution, which can be used to invalidate a patent or prevent a patent from issuing from a pending patent application. Even if patents do successfully issue, and even if such patents cover our product candidates, third parties may challenge their validity, enforceability or scope, which may result in such patent claims being narrowed, found unenforceable or invalidated. Furthermore, even if they are unchallenged, our patents and patent applications may not adequately protect our intellectual property, provide exclusivity for our product candidates or prevent others from designing around our claims. Any of these outcomes could impair our ability to prevent competitors from using the technologies claimed in any patents issued to us, which may have an adverse impact on our business

Patents granted by the European Patent Office may be opposed by any person within nine months from the publication of their grant and, in addition, may be challenged before national courts at any time. Furthermore, even if they are unchallenged, our patents and patent applications may not adequately protect our intellectual property or prevent others from designing around our claims. If the breadth or strength of protection provided by the patents and patent applications we hold, license or pursue with respect to our product candidates is threatened, it could threaten our ability to prevent third parties from using the same technologies that we use in our product candidates. In addition, recent changes to the patent laws of the United States provide additional procedures for third parties to challenge the validity of issued patents based on patent applications filed after March 15, 2013. If the breadth or strength of protection provided by the patents and patent applications we hold or pursue with respect to our current or future product candidates is challenged, then it could threaten our ability to prevent competitive products from using our proprietary technology. Further, because patent applications in the United States and most other countries are confidential for a period of time, typically for 18 months after filing, we cannot be certain that we were the first to either (i) file any patent application related to our product candidates or (ii) invent any of the inventions claimed in our patents or patent applications. Furthermore, for applications filed before March 16, 2013 or patents issuing from such applications, an interference proceeding can be provoked by a third party or instituted by the USPTO to determine who was the first to invent any of the subject matter covered by the patent claims of our applications and patents. If third parties have filed such applications after March 15, 2013, a derivation proceeding in the United States can be initiated by such third parties to determine whether our invention was derived from theirs.

We do not have any issued patents, but we have filed patent applications, which are currently pending, directed to various aspects of our product candidates. We cannot offer any assurances about which, if any, patents will be issued, the breadth of any such patent or whether any issued patents will be found invalid and unenforceable or will be threatened or infringed by third parties. Any successful actions by third parties to challenge the validity or enforceability of any patents that may be issued to us could deprive us of the ability to prevent others from using the technologies claimed in such issued patents. Further, if we encounter delays in regulatory approvals, the period of time during which we could market a product candidate under patent protection could be reduced.

While our business is based primarily on the timing of our biosimilar product launches to occur after the expiration of relevant patents, we have filed two patent applications directed to our own proprietary formulations and processes for our product candidates when we have believed securing such patents may afford a competitive advantage. For example, the companies that originated Humira and Avastin (AbbVie and Genentech, respectively) own patents directed to formulations

for these products. Rather than wait for the expiration of these formulation patents, we have developed our own proprietary formulations for these products that we believe are not covered by third party patents, including AbbVie or Genentech's formulation patents; and we have filed patent applications directed to our formulations. We cannot guarantee that our proprietary formulations will avoid infringement of third party patents. Moreover, because competitors may be able to develop their own proprietary product formulations, it is uncertain whether issuance of any of our pending patent applications directed to formulations of adalimumab (Humira) and bevacizumab (Avastin) would cover the formulations of any competitors. For example, we are aware that Sandoz is developing biosimilar versions of adalimumab (Humira) and has filed patent applications directed to formulations of adalimumab (Humira). We are also aware that Boehringer is developing a biosimilar version of adalimumab (Humira) and has filed a patent application directed to formulations of adalimumab (Humira). We have also filed patent applications, none of which have yet issued, directed to aspects of our downstream manufacturing processes for various biosimilars, including ONS-3010. In contrast to our patent applications directed to formulations of ONS-3010, the proprietary technologies embodied in our process-related patent filings, while directed to inventions we believe may provide us with competitive advantage, were not developed by us to avoid third-party patents. As in the case of our formulation patent filings, it is highly uncertain and we cannot predict whether our patent filings on process enhancements will afford us a competitive advantage against third parties.

Obtaining and maintaining our patent protection depends on compliance with various procedural requirements, document submissions, fee payment and other requirements imposed by governmental patent agencies. Our patent protection could be reduced or eliminated for non-compliance with these requirements.

The USPTO and various foreign governmental patent agencies require compliance with a number of procedural, documentary, fee payment and other provisions during the patent process. In many cases, an inadvertent lapse can be cured by payment of a late fee or by other means in accordance with the applicable rules. However, there are situations in which noncompliance can result in abandonment or lapse of a patent or patent application, resulting in partial or complete loss of patent rights in the relevant jurisdiction. In such an event, competitors might be able to enter the market earlier than would otherwise have been the case.

We may not be able to protect our intellectual property rights throughout the world.

Filing, prosecuting, defending and enforcing patents on product candidates in all countries throughout the world would be prohibitively expensive, and our intellectual property rights in some countries outside the United States can be less extensive than those in the United States. In addition, the laws of some foreign countries do not protect intellectual property rights to the same extent as federal and state laws in the United States. Further, licensing partners may choose not to file patent applications in certain jurisdictions in which we may obtain commercial rights, thereby precluding the possibility of later obtaining patent protection in these countries. Consequently, we may not be able to prevent third parties from practicing our inventions in all countries outside the United States or importing products made using our inventions into the United States or other jurisdictions. Competitors may use our technologies in jurisdictions where we have not obtained patent protection to develop their own products and may also export infringing products to territories where we have patent protection, but the ability to enforce our patents is not as strong as that in the United States. These products may compete with our products and our patents or other intellectual property rights may not be effective or sufficient to prevent them from competing.

Many companies have encountered significant problems in protecting and defending intellectual property rights in foreign jurisdictions. The legal systems of certain countries, particularly certain developing countries, do not favor the enforcement of patents, trade secrets and other intellectual property protection, which could make it difficult for us to stop the infringement of our patents or marketing of competing products in violation of our proprietary rights generally. Proceedings to enforce our patent rights in foreign jurisdictions, whether or not successful, could result in substantial costs and divert our efforts and attention from other aspects of our business, could put our patents at risk of being invalidated or interpreted narrowly and our patent applications at risk of not being approved, and could provoke third parties to assert claims against us. We may not prevail in any lawsuits that we initiate and the damages or other remedies awarded, if any, may not be commercially meaningful. Governments of some foreign countries may force us to license our patents to third parties on terms that are not commercially reasonable or acceptable to us. Accordingly, our efforts to enforce our intellectual property rights around the world may be inadequate to obtain a significant commercial advantage from the intellectual property that we develop or license.

Changes in U.S. patent law could diminish the value of patents in general, thereby impairing our ability to protect our product candidates.

As is the case with other biopharmaceutical companies, our success is heavily dependent on intellectual property, particularly patents. Obtaining and enforcing patents in the biopharmaceutical industry involves both technological and legal complexity. Therefore, obtaining and enforcing biopharmaceutical patents is costly, time-consuming and inherently

uncertain. In addition, the United States has recently enacted and is currently implementing wide-ranging patent reform legislation, including the Leahy-Smith America Invents Act, or the America Invents Act, signed into law on September 16, 2011

As of March 16, 2013, the United States transitioned to a "first-to-file" system for deciding which party should be granted a patent when two or more patent applications claiming the same invention are filed by different parties. A third party that files a patent application in the USPTO before us could therefore be awarded a patent covering an invention of ours even if we had made the invention before it was made by the third party. The change to "first-to-file" from "first-to-invent" is one of the changes to the patent laws of the United States resulting from the America Invents Act. Among some of the other significant changes to the patent laws are changes that limit where a patentee may file a patent infringement suit and provide opportunities for third parties to challenge any issued patent in the USPTO via procedures including post-grant and inter partes review. These adversarial actions at the USPTO review patent claims without the presumption of validity afforded to U.S. patents in lawsuits in U.S. federal courts, and use a lower burden of proof than used in litigation in U.S. federal courts. Therefore, it is generally considered easier for a competitor or third party to have a patent invalidated in a Patent Office post-grant review or inter partes review proceeding than invalidated in a litigation in a U.S. federal court. If any of our patents are challenged by a third party in such a USPTO proceeding, there is no guarantee that we or our licensors or collaborators will be successful in defending the patent, which would result in a loss of the challenged patent right. It is not yet clear what, if any, impact the America Invents Act will have on the operation of our business. However, the America Invents Act and its implementation could increase the uncertainties and costs surrounding the prosecution of our patent applications and the enforcement or defense of any issued patents, all of which could harm our business and financial condition.

Further, recent court rulings in cases such as Association for Molecular Pathology v. Myriad Genetics, Inc. (Myriad I); BRCA1- & BRCA2-Based Hereditary Cancer Test Patent Litig., (Myriad II); and Promega Corp. v. Life Technologies Corp. have narrowed the scope of patent protection available in certain circumstances and weakened the rights of patent owners in certain situations.

In addition to increasing uncertainty with regard to our ability to obtain patents in the future, this combination of events has created uncertainty with respect to the value of patents, once obtained. Depending on future actions by the United States Congress, the Federal Courts and the USPTO, the laws and regulations governing patents could change in unpredictable ways that would weaken our ability to obtain new patents or to enforce existing patents and patents that we might obtain in the future.

If we are unable to maintain effective proprietary rights for our product candidates or any future product candidates, we may not be able to compete effectively in our markets.

While we have filed patent applications to protect certain aspects of our own proprietary formulation and process developments, we also rely on trade secret protection and confidentiality agreements to protect proprietary scientific, business and technical information and know-how that is not or may not be patentable or that we elect not to patent. However, confidential information and trade secrets can be difficult to protect. Moreover, the information embodied in our trade secrets and confidential information may be independently and legitimately developed or discovered by third parties without any improper use of or reference to information or trade secrets. We seek to protect the scientific, technical and business information supporting our operations, as well as the confidential information relating specifically to our product candidates by entering into confidentiality agreements with parties to whom we need to disclose our confidential information, such as, our employees, consultants, board members, contractors, potential collaborators and financial investors. However we cannot be certain that such agreements have been entered into with all relevant parties. We also seek to preserve the integrity and confidentiality of our data and trade secrets by maintaining physical security of our premises and physical and electronic security of our information technology systems, but it is possible that these security measures could be breached. While we have confidence in these individuals, organizations and systems, agreements or security measures may be breached and we may not have adequate remedies for any breach. Our confidential information and trade secrets thus may become known by our competitors in ways we cannot prove or remedy.

Although we expect all of our employees and consultants to assign their inventions to us, and all of our employees, consultants, advisors and any third parties who have access to our proprietary know-how, information or technology to enter into confidentiality agreements, we cannot provide any assurances that all such agreements have been duly executed. We cannot guarantee that our trade secrets and other confidential proprietary information will not be disclosed or that competitors will not otherwise gain access to our trade secrets or independently develop substantially equivalent information and techniques. For example, any of these parties may breach the agreements and disclose our proprietary information, including our trade secrets, and we may not be able to obtain adequate remedies for such breaches.

Misappropriation or unauthorized disclosure of our trade secrets could impair our competitive position and may harm our business. Additionally, if the steps taken to maintain our trade secrets are deemed inadequate, we may have insufficient recourse against third parties for misappropriating any trade secret. We cannot guarantee that our employees, former employees or consultants will not file patent applications claiming our inventions. Because of the "first-to-file" laws in the United States, such unauthorized patent application filings may defeat our attempts to obtain patents on our own inventions.

We may be subject to claims challenging the inventorship of our patent filings and other intellectual property.

We may in the future be subject to claims that former employees, collaborators or other third parties have an interest in our patent applications or patents we may be granted or other intellectual property as an inventor or co-inventor. For example, we may have inventorship or ownership disputes arise from conflicting obligations of consultants or others who are involved in developing our product candidates. Litigation may be necessary to defend against these and other claims challenging inventorship or ownership. If we fail in defending any such claims, in addition to paying monetary damages, we may lose valuable intellectual property rights, such as exclusive ownership of or right to use valuable intellectual property. Such an outcome could harm our business. Even if we are successful in defending against such claims, litigation could result in substantial costs and be a distraction to management and other employees.

If we fail to comply with our obligations in the agreements under which we license intellectual property and other rights from third parties or otherwise experience disruptions to our business relationships with our licensors, we could lose license rights that are important to our business.

We are party to a non-exclusive intellectual property license agreement with Selexis SA, or Selexis, pertaining to cell line expression technology, that is important to our business, and we expect to enter into additional license agreements in the future. Our license agreement with Selexis imposes, and we expect that future license agreements will impose, various milestone payments, royalty payments and other obligations on us. If we fail to comply with our obligations under these agreements or if we are subject to a bankruptcy, we may be required to make certain payments to the licensor of our license or the licensor may have the right to terminate the license, in which event we would not be able to develop or market products covered by the license. Additionally, the milestone and other payments associated with these licenses will make it less profitable for us to develop our product candidates.

In the event we breach any of our obligations under these agreements, we may incur significant liability to our licensing partners. Disputes may arise regarding intellectual property subject to a licensing agreement, including but not limited to:

- the scope of rights granted under the license agreement and other interpretation-related issues;
- the extent to which our technology and processes infringe on intellectual property of the licensor that is not subject to the licensing agreement;
- the sublicensing of patents and other rights;
- our diligence obligations under the license agreement and what activities satisfy those diligence obligations;
- the ownership of inventions and know-how resulting from the joint creation or use of intellectual property by our licensors and us and our collaborators; and
- the priority of invention of patented technology.

If disputes over intellectual property and other rights that we have licensed prevent or impair our ability to maintain our current licensing arrangements on acceptable terms, we may be unable to successfully develop and commercialize the affected product candidates and that could harm our business.

We may not be successful in obtaining or maintaining necessary rights to our product candidates through acquisitions and in-licenses.

We currently have rights to certain intellectual property through licenses from third parties, including Selexis, to develop ONS-3010 and ONS-1045. Because we may find that our programs require the use of proprietary rights held by third parties, the growth of our business may depend in part on our ability to acquire, in-license or use these proprietary rights. We may be unable to acquire or in-license compositions, methods of use, processes or other third party intellectual property rights from third parties that we identify as necessary for our product candidates. The licensing and acquisition of third-party intellectual property rights is a competitive area, and a number of more established companies are also pursuing strategies to license or acquire third-party intellectual property rights that we may consider attractive. These established companies may have a competitive advantage over us due to their size, financial resources and greater clinical development and commercialization capabilities. In addition, companies that perceive us to be a competitor may be unwilling to assign or license rights to us. We also may be unable to license or acquire third-party intellectual property rights on terms that would allow us to make an appropriate return on our investment.

If we are unable to successfully obtain rights to required third party intellectual property rights or maintain the existing intellectual property rights we have, we may have to abandon development of that program and our business and financial condition could suffer.

Our ability to market our products in the United States may be significantly delayed or prevented by the BPCIA patent dispute resolution mechanism.

The BPCIA created a new, elaborate and complex patent dispute resolution mechanism for biosimilars that could prevent us from launching our product candidates in the United States or could substantially delay such launches. This mechanism has been referred to as the "patent dance." Uncertainty over how courts will construe the patent dance, for example whether it is the exclusive pathway for litigation involving 351(k) biosimilar applications, may cause our assumptions regarding the scope, timing and expense of patent litigation to be incorrect, and may cause delays in the launch of products subject to such litigation.

Currently, the patent dance is not mandatory, although this may change in the future. The patent dance mandates patent disclosure and briefing requirements that are demanding and time-sensitive. The following is an overview of the patent exchange and patent briefing procedures:

- Disclosure of the Biosimilar Application. Within 20 days after receiving a notice from the FDA that its application has been accepted for review, a 351(k) biosimilar applicant provides a copy of its application information to the RPS. Providing of this information begins the patent dance. If the 351(k) biosimilar applicant chooses not to disclose such information, or opts out of later steps of the patent dance, the RPS may bring an immediate suit for patent infringement that will proceed under the conventional procedural rules for patent infringement actions.
- Identification of Pertinent Patents. Within 60 days of the date of receipt of the application, the RPS must identify the patents owned or controlled by it that it reasonably believes could be asserted against the biosimilar applicant.
- Statement by the Biosimilar Applicant. Following the receipt of the RPS's patent list, the biosimilar applicant must state either that it will not market its product until the relevant patents have expired or alternatively provide its arguments of stating why the patents are invalid, unenforceable or would not be infringed by the proposed biosimilar product candidate. The biosimilar applicant may also provide the RPS with a list of patents it reasonably believes the RPS could assert against the biosimilar product.
- Statement by the RPS. In the event the biosimilar applicant has asserted that the patents are invalid, unenforceable or would not be infringed by the proposed follow-on product, the RPS must provide the biosimilar applicant with a response within 60 days. The response must provide the legal and factual basis of the opinion that such patent will be infringed by the commercial marketing of the proposed biosimilar.
- Patent Resolution Negotiations. If the RPS provides its detailed views that the proposed biosimilar would infringe valid and enforceable patents, then the parties are required to engage in good faith negotiations to identify which of the identified patents will be the subject of a patent infringement action. If the parties agree on the patents to be litigated, the RPS must bring an action for patent infringement within 30 days.
- Simultaneous Exchange of Patents. If those negotiations do not result in an agreement within 15 days, then the biosimilar applicant must notify the RPS of how many patents (but not the identity of those patents) that it wishes to litigate. Within five days, the parties are then required to exchange lists identifying the patents to be litigated. The number of patents identified by the RPS may not exceed the number provided by the biosimilar applicant. However, if the biosimilar applicant previously indicated that no patents should be litigated, then the RPS may identify one patent.
- Commencement of Patent Litigation. The RPS must then commence patent infringement litigation within 30 days. That litigation will involve all of the patents on the RPS's list and all of the patents on the biosimilar applicant's list. The biosimilar applicant must then notify the FDA of the litigation. The FDA must then publish a notice of the litigation in the Federal Register.
- Notice of Commercial Marketing. If the biosimilar applicant opts out of the patent dance, the BPCIA requires the biosimilar applicant to provide notice to the RPS after FDA licensure, and at least 180 days in advance of its first commercial marketing of its proposed follow-on biologic. It is not clear whether the biosimilar applicant must give notice if it complies with the patent dance, but courts may interpret the BPCIA to require such notice. If notice is not given, the RPS may immediately commence a patent infringement action on any patent that was

listed (or listable) by the RPS during the dance, but not part of the first wave of patents being litigated. The RPS is allowed to seek a preliminary injunction blocking such marketing based upon any such patents. The litigants are required to "reasonably cooperate to expedite such further discovery as is needed" with respect to the preliminary injunction motion.

Biosimilar companies such as ours have the option of applying for U.S. regulatory approval for our products under either a traditional 351(a) BLA approval route, or under the recently enacted streamlined 351(k) approval route established by the BPCIA. The factors underpinning such a decision are extremely complex and involve, among other things, balancing legal risk (in terms of, e.g., the degree and timing of exposure to potential patent litigation by the RPS) against regulatory risks (in terms of, e.g., the development costs and the differing scope of regulatory approval that may be afforded under 351(a) rather than 351(k)).

A significant legal risk in pursuing regulatory approval under the 351(k) regulatory approval route is that the above-summarized patent exchange process established by the BPCIA could result in the initiation of patent infringement litigation prior to FDA approval of a 351(k) application, and such litigation could result in blocking the market entry of our products. In particular, while the 351(k) route is more attractive to us (rather than 351(a)) for reasons related to development time and costs and the potential broader scope of eventual regulatory approval for our biosimilar product candidates, the countervailing risk in such a regulatory choice is that the complex patent exchange process mandated by the BPCIA could ultimately prevent or substantially delay us from launching our products in the United States.

Preparing for and conducting the patent exchange, briefing and negotiation process outlined above will require extraordinarily sophisticated legal counseling and extensive planning, all under extremely tight deadlines. Moreover, it may be difficult for us to secure such legal support if large, well-funded RPSs have already entered into engagements with highly qualified law firms or if the most highly qualified law firms choose not to represent biosimilar applicants due to their long standing relationships with RPSs.

Furthermore, we could be at a serious disadvantage in this process as an RPS, such as AbbVie (in the case of ONS-3010) or Genentech (in the case of ONS-1045 or ONS-1050), may be able to apply substantially greater legal and financial resources to this process than we could.

Whether courts will view the BPCIA process as the sole avenue for a biosimilar entity and the RPS to identify and potentially litigate such patents remains uncertain, although a Federal Circuit panel has recently held that a biosimilar applicant may opt out of the patent dance. A binding and non-reviewable judicial determination to that effect could increase patent infringement risks for companies, including ours, seeking to introduce biosimilar versions of reference products.

If we file a 351(k) regulatory approval application for one or more of our products, we may consider it necessary or advisable to adopt the strategy of selecting one or more patents of the RPS to litigate in the above described BPCIA process (for example in steps 3 and 7 of the process, as outlined above), either to assert our non-infringement of such patents or to challenge their validity; but we may ultimately not be successful in that strategy and could be prevented from marketing the product in the United States.

The complex, untested and uncertain rules of the BPCIA patent provisions, coupled with the inherent uncertainty surrounding the legal interpretation of any RPS patents that might be asserted against us in this new process, may significantly delay or defeat our ability to market our products in the United States.

Risks Related to Our Business Operations

We may not be successful in our efforts to identify, develop or commercialize additional product candidates.

Although a substantial amount of our effort will focus on the continued clinical testing, potential approval and commercialization of our existing product candidates, the success of our business also depends upon our ability to identify, develop and commercialize additional product candidates. Research programs to identify new product candidates require substantial technical, financial and human resources. We may focus our efforts and resources on potential programs or product candidates that ultimately prove to be unsuccessful. Our development efforts may fail to yield additional product candidates suitable for clinical development and commercialization for a number of reasons, including but not limited to the following:

- we may not be successful in identifying potential product candidates that pass our strict screening criteria;
- we may not be able to overcome technological hurdles to development or a product candidate may not be capable of producing commercial quantities at an acceptable cost, or at all;

- we may not be successful in identifying a reference product as to which we can determine how to create a biosimilar:
- we may not be able to assemble sufficient resources to acquire or discover additional product candidates;
- our product candidates may not succeed in preclinical or clinical testing;
- our potential product candidates may fail to show sufficient biosimilarity to reference molecules; and
- competitors may develop alternatives that render our product candidates obsolete or less attractive or the
 market for a product candidate may change such that a product candidate may not justify further development.

If any of these events occur, we may be forced to abandon our development efforts for a program or programs or we may not be able to identify, develop or commercialize additional product candidates, which would harm our business and could potentially cause us to cease operations.

We will incur significant increased costs as a result of operating as a public company, and our management will be required to devote substantial time to new compliance initiatives.

As a public company, we will incur significant legal, accounting and other expenses that we did not incur as a private company. In addition, the Sarbanes-Oxley Act of 2002, or the Sarbanes-Oxley Act, as well as rules subsequently implemented by the Securities and Exchange Commission, or SEC, and The NASDAQ Global Market, or NASDAQ, have imposed various requirements on public companies. In July 2010, the Dodd-Frank Wall Street Reform and Consumer Protection Act, or the Dodd-Frank Act, was enacted. There are significant corporate governance and executive compensation related provisions in the Dodd-Frank Act that require the SEC to adopt additional rules and regulations in these areas such as "say on pay" and pay parity. Recent legislation permits smaller "emerging growth companies" such as us to implement many of these requirements over a longer period and up to five years from the pricing of this offering. We intend to take advantage of this new legislation but cannot guarantee that we will not be required to implement these requirements sooner than budgeted or planned and thereby incur unexpected expenses. Stockholder activism, the current political environment and the current high level of government intervention and regulatory reform may lead to substantial new regulations and disclosure obligations, which may lead to additional compliance costs and impact the manner in which we operate our business in ways we cannot currently anticipate. Our management and other personnel will need to devote a substantial amount of time to these compliance initiatives. Moreover, these rules and regulations will increase our legal and financial compliance costs and will make some activities more time-consuming and costly. For example, we expect these rules and regulations to make it more difficult and more expensive for us to obtain director and officer liability insurance and we may be required to incur substantial costs to maintain our current levels of such coverage

The Sarbanes-Oxley Act requires, among other things, that we maintain effective internal controls for financial reporting and disclosure controls and procedures. In particular, we will be required to perform system and process evaluation and testing of our internal controls over financial reporting to allow management to report, commencing in our annual report on Form 10-K for the year ending September 30, 2017, on the effectiveness of our internal controls over financial reporting, if then required by Section 404 of the Sarbanes-Oxley Act, or Section 404. Our testing may reveal deficiencies in our internal controls over financial reporting that are deemed to be material weaknesses. Our compliance with Section 404 will require that we incur substantial accounting expense and expend significant management efforts. We currently do not have an internal audit group and rely on independent contractors for control monitoring and for the preparation and review of our consolidated financial statements. We are actively seeking additional accounting and financial staff with appropriate public company experience and technical accounting knowledge to augment our current staff. Moreover, if we are not able to comply with the requirements of Section 404 in a timely manner or if we identify or our independent registered public accounting firm identifies deficiencies in our internal controls over financial reporting that are deemed to be material weaknesses, the market price of our stock could decline and we could be subject to sanctions or investigations by NASDAQ, the SEC or other regulatory authorities, which would require additional financial and management resources.

New laws and regulations as well as changes to existing laws and regulations affecting public companies, including the provisions of the Sarbanes-Oxley Act and rules adopted by the SEC and by NASDAQ, would likely result in increased costs to us as we respond to their requirements.

We are highly dependent on the services of our key executives and personnel, including our Chairman, President and Chief Executive Officer, Pankaj Mohan, Ph.D., and if we are not able to retain these members of our management or recruit additional management, clinical and scientific personnel, our business will suffer.

We are highly dependent on the principal members of our management and scientific and technical staff, particularly, our Chairman, President and Chief Executive Officer, Dr. Mohan. Dr. Mohan's current employment agreement with our company expires upon the completion of this offering. Although we are currently negotiating a revised employment agreement with

Dr. Mohan, which we expect to enter into prior to completion of this offering, we may not be successful in reaching such agreement prior to completion of this offering. The loss of service of any of our management or key scientific and technical staff could harm our business. In addition, we are dependent on our continued ability to attract, retain and motivate highly qualified additional management, clinical and scientific personnel. If we are not able to retain our management and to attract, on acceptable terms, additional qualified personnel necessary for the continued development of our business, we may not be able to sustain our operations or grow.

We may not be able to attract or retain qualified personnel in the future due to the intense competition for qualified personnel among biotechnology, pharmaceutical and other businesses. Our industry has experienced a high rate of turnover of management personnel in recent years. If we are not able to attract, retain and motivate necessary personnel to accomplish our business objectives, we may experience constraints that will significantly impede the achievement of our development objectives, our ability to raise additional capital and our ability to implement our business strategy.

Our future performance will also depend, in part, on our ability to successfully integrate newly hired executive officers into our management team and our ability to develop an effective working relationship among senior management. Our failure to integrate these individuals and create effective working relationships among them and other members of management could result in inefficiencies in the development and commercialization of our product candidates, harming future regulatory approvals, sales of our product candidates and our results of operations. Additionally, we do not currently maintain "key person" life insurance on the lives of our executives or any of our employees.

We will need to expand our organization and we may experience difficulties in managing this growth, which could disrupt our operations.

As of December 31, 2015, we had 80 full-time employees. As our development and commercialization plans and strategies develop, we expect to need additional managerial, operational, sales, marketing, financial, legal and other resources. Our management may need to divert a disproportionate amount of its attention away from our day-to-day operations and devote a substantial amount of time to managing these growth activities. We may not be able to effectively manage the expansion of our operations, which may result in weaknesses in our infrastructure, operational inefficiencies, loss of business opportunities, loss of employees and reduced productivity among remaining employees. Our expected growth could require significant capital expenditures and may divert financial resources from other projects, such as the development of our current and potential future product candidates. If our management is unable to effectively manage our growth, our expenses may increase more than expected, our ability to generate and grow revenue could be reduced and we may not be able to implement our business strategy. Our future financial performance and our ability to commercialize product candidates and compete effectively will depend, in part, on our ability to effectively manage any future growth.

Two members of our board of directors, including our Chief Executive Officer, are directors of Sonnet Biotherapeutics, Inc. In addition, there is significant overlap between our current stockholders and the shareholders of Sonnet. Their interests may conflict with those of our other stockholders.

On April 6, 2015, pursuant to a contribution agreement, we contributed certain of our assets, unrelated to our biosimilar business, to Sonnet Biotherapeutics, Inc., or Sonnet, a company focused on the development of bi- or tri-specific antibody fragments that have potential utility in oncology, in exchange for all of Sonnet's outstanding equity interests. We then distributed the equity interests to our stockholders on a pro rata basis. Two of our current directors, Pankaj Mohan, Ph.D., who is also our Chairman, President and Chief Executive Officer, and Donald J. Griffith, our former Chief Financial Officer, currently serve as members of the board of directors of Sonnet. In addition, Mr. Griffith serves as the President, Chief Executive Officer and Treasurer of Sonnet. Neither Dr. Mohan nor Mr. Griffith intend to resign from their respective positions in Sonnet. In addition, Dr. Mohan currently holds approximately 57% of the outstanding capital stock of Sonnet. These relationships could result in conflicts of interest between their obligations to our company and Sonnet. In addition, there is significant overlap between our current stockholders and the shareholders of Sonnet. Sonnet's interests and the interests of its shareholders may be different from ours or those of our other stockholders and this could result in conflicts. The resolution of any of these conflicts may not always be in our or your best interest.

Healthcare legislative reform measures may harm our business and results of operations.

In the United States, there have been and continue to be a number of legislative initiatives to improve the access to and quality of healthcare, and to contain healthcare costs. For example, in March 2010, the Patient Protection and Affordable Care Act, as amended by the Health Care and Education Reconciliation Act of 2010, or together, the PPACA, was passed, which substantially changes the way health care is financed by both governmental and private insurers and significantly impacts the U.S. pharmaceutical industry. The PPACA, among other things, imposes a new methodology by which rebates owed by manufacturers under the Medicaid Drug Rebate Program are calculated for drugs that are inhaled, infused, instilled, implanted or injected, increases the minimum Medicaid rebates owed by manufacturers under the Medicaid Drug

Rebate Program, extends the rebate program to individuals enrolled in Medicaid managed care organizations, adds a provision to increase the Medicaid rebate for line extensions or reformulated drugs, establishes annual fees and taxes on manufacturers and importers of certain branded prescription drugs and biologic agents, and promotes a new Medicare Part D coverage gap discount program. The PPACA also expands eligibility for Medicaid programs and introduced a new Patient Centered Outcomes Research Institute to oversee, identify priorities in, and conduct comparative clinical effectiveness research, along with funding for such research.

In addition, other legislative changes have been proposed and adopted in the United States since the PPACA was enacted. For example, on August 2, 2011, the Budget Control Act of 2011, among other things, created measures for spending reductions by Congress. A Joint Select Committee on Deficit Reduction, tasked with recommending a targeted deficit reduction of at least \$1.2 trillion for the years 2012 through 2021, was unable to reach required goals, thereby triggering the legislation's automatic reduction to several government programs. This includes aggregate reductions of Medicare payments to providers up to 2% per fiscal year, which went into effect on April 1, 2013 and will stay in effect through 2024 unless additional Congressional action is taken. Additionally, on January 2, 2013, President Obama signed into law the American Taxpayer Relief Act of 2012, which among other things, further reduced Medicare payments to certain providers, including physicians, hospitals and cancer treatment centers.

We expect that the PPACA, as well as other healthcare reform measures that may be adopted in the future, may result in more rigorous coverage criteria and lower reimbursement, and additional downward pressure on the price that we receive for any approved product. Any reduction in reimbursement from Medicare or other government-funded programs may result in a similar reduction in payments from private payors. The implementation of cost containment measures or other healthcare reforms could result in reduced demand for our product candidates or additional pricing pressures, and may prevent us from being able to generate revenue, attain profitability or commercialize our drugs.

We may be subject, directly or indirectly, to federal and state healthcare laws and regulations, including fraud and abuse, false claims, physician payment transparency and health information privacy and security laws. If we are unable to comply or have not fully complied with such laws, we could face substantial penalties.

If we obtain FDA approval for any of our product candidates and begin commercializing those products in the United States, our operations may be directly or indirectly through our customers subject to various federal and state fraud and abuse laws, including without limitation, the federal Anti-Kickback Statute, the federal False Claims Act and physician sunshine laws and regulations. These laws may impact, among other things, our proposed sales, marketing and education programs. In addition, we may be subject to patient data privacy and security regulation by both the federal government and the states in which we conduct our business. The healthcare laws that may affect our ability to operate include but are not limited to:

- the federal Anti-Kickback Statute, which prohibits, among other things, persons and entities from knowingly and willfully soliciting, receiving, offering or paying remuneration, directly or indirectly, in cash or in kind, to induce, reward, or in return for either the referral of an individual for, or the purchase, recommendation, order or furnishing of an item or service reimbursable, in whole or in part, under a federal healthcare program, such as the Medicare and Medicaid programs;
- federal civil and criminal false claims laws and civil monetary penalty laws, including the civil False Claims Act, which prohibit, among other things, individuals or entities from knowingly presenting or causing to be presented claims for payment from Medicare, Medicaid or other government health programs that are false or fraudulent and which may apply to entities that provide coding and billing advice to customers;
- the federal Health Insurance Portability and Accountability Act of 1996, or HIPAA, which created additional federal criminal statutes that prohibit, among other things, executing a scheme to defraud any healthcare benefit program and making false statements relating to healthcare matters;
- HIPAA, as amended by the Health Information Technology for Economic and Clinical Health Act, and its
 implementing regulations, which imposes certain requirements, including mandatory contractual terms, relating
 to the privacy, security and transmission of individually identifiable health information on health plans, certain
 healthcare providers, and healthcare clearinghouses, and their business associates;
- the federal legislation commonly referred to as the Physician Payments Sunshine Act under the PPACA, which requires certain manufacturers of drugs, devices, biologics and medical supplies for which payment is available under Medicare, Medicaid, or the Children's Health Insurance Program, with specific exceptions, to report annually to the Centers for Medicare & Medicaid Services information related to payments and other transfers of value made by such manufacturers to physicians and teaching hospitals and ownership and investment interests held by physicians and their immediate family members and applicable group purchasing organizations; and

analogous state and foreign laws and regulations, such as anti-kickback and false claims laws that may apply to items or services reimbursed by any third-party payor, including commercial insurers; state laws that require pharmaceutical companies to comply with the pharmaceutical industry's voluntary compliance guidelines and the relevant compliance guidance promulgated by the federal government or otherwise restrict payments that may be made to healthcare providers and other potential referral sources; state laws that require drug manufacturers to report information related to payments and other transfers of value to physicians and other healthcare providers or marketing expenditures; and state laws governing the privacy and security of health information in certain circumstances, many of which differ from each other in significant ways and may not have the same effect, thus complicating compliance efforts.

Because of the breadth of these laws and the narrowness of the statutory exceptions and safe harbors available, it is possible that some of our business activities could be subject to challenge under one or more of such laws. In addition, recent healthcare reform legislation has strengthened these laws. For example, the PPACA, among other things, amends the intent requirement of the federal anti-kickback and criminal healthcare fraud statutes. A person or entity no longer needs to have actual knowledge of these statutes or specific intent to violate them in order to commit a violation. Moreover, the PPACA provides that the government may assert that a claim including items or services resulting from a violation of the federal Anti-Kickback Statute constitutes a false or fraudulent claim for purposes of the civil False Claims

If our operations are found to be in violation of any of the laws described above or any other governmental regulations that apply to us, we may be subject to penalties, including civil and criminal penalties, damages, fines, exclusion from participation in government healthcare programs, such as Medicare and Medicaid, imprisonment, disgorgement, contractual damages, reputational harm, diminished profits and future earnings, and the curtailment or restructuring of our operations, any of which could adversely affect our ability to operate our business and our results of operations. Defending against any such actions can be costly, time-consuming and may require significant financial and personnel resources. Therefore, even if we are successful in defending against any such actions that may be brought against us, our business may be impaired.

The international aspects of our business expose us to business, regulatory, political, operational, financial and economic risks associated with doing business outside of the United States.

We currently have limited international operations of our own and have a number of international collaborations. Doing business internationally involves a number of risks, including but not limited to:

- multiple, conflicting and changing laws and regulations such as privacy regulations, tax laws, export and import restrictions, employment laws, regulatory requirements and other governmental approvals, permits and licenses:
- failure by us or our collaboration partners to obtain and maintain regulatory approvals for the use of our products in various countries:
- additional potentially relevant third-party patent rights;
- complexities and difficulties in obtaining protection and enforcing our intellectual property;
- difficulties in staffing and managing foreign operations by us or our collaboration partners;
- complexities associated with managing multiple payor reimbursement regimes, government payors or patient self-pay systems by our collaboration partners;
- limits in our or our collaboration partners' ability to penetrate international markets;
- financial risks, such as longer payment cycles, difficulty collecting accounts receivable, the impact of local and regional financial crises on demand and payment for our products and exposure to foreign currency exchange rate fluctuations:
- natural disasters, political and economic instability, including wars, terrorism and political unrest, outbreak of disease, boycotts, curtailment of trade and other business restrictions;
- certain expenses including, among others, expenses for travel, translation and insurance; and
- regulatory and compliance risks that relate to maintaining accurate information and control over sales and activities that may fall within the purview of the U.S. Foreign Corrupt Practices Act, its books and records provisions or its anti-bribery provisions.

If we fail to comply with environmental, health and safety laws and regulations, we could become subject to fines or penalties or incur costs that could harm our business.

Our research, development and manufacturing activities and our third-party suppliers' activities involve the controlled storage, use and disposal of hazardous materials, including the components of our product candidates and other hazardous compounds. We and our suppliers are subject to laws and regulations governing the use, manufacture, storage, handling

and disposal of these hazardous materials. In some cases, these hazardous materials and various wastes resulting from their use are stored at our facilities pending their use and disposal. We cannot eliminate the risk of contamination, which could cause an interruption of our commercialization efforts, research, development and manufacturing efforts and business operations, and environmental damage resulting in costly clean-up and liabilities under applicable laws and regulations governing the use, storage, handling and disposal of these materials and specified waste products. Although we believe that the safety procedures utilized by us for handling and disposing of these materials generally comply with the standards prescribed by these laws and regulations, we cannot guarantee that this is the case or eliminate the risk of accidental contamination or injury from these materials. In such an event, we may be held liable for any resulting damages and such liability could exceed our resources and state or federal or other applicable authorities may curtail our use of certain materials and/or interrupt our business operations. Furthermore, environmental laws and regulations are complex, change frequently and have tended to become more stringent. We cannot predict the impact of such changes and cannot be certain of our future compliance. We do not currently carry biological or hazardous waste insurance coverage.

Risks Related to this Offering and Ownership of Our Common Stock

An active trading market for our common stock may not develop or be sustainable, and you may not be able to resell your shares at or above the initial public offering price.

Prior to this offering, there has not been a public market for our common stock. The initial public offering price for the shares will be determined by negotiations between us and the representatives of the underwriters and may not be indicative of prices that will prevail in the trading market. An active trading market for our common stock may not develop, or be sustained, following this offering. If an active market for our common stock does not develop, you may not be able to sell your shares quickly or at the market price. We cannot predict the prices at which our common stock will trade and you may not be able to resell your shares at a price that is at or above the initial public offering price.

The trading price of our common stock is likely to be volatile, and purchasers of our common stock could incur substantial losses.

The market price of our common stock is likely to be volatile. The stock market in general and the market in which we operate have experienced extreme volatility that has often been unrelated to the operating performance of particular companies. As a result of this volatility, investors may not be able to sell their common stock at or above the initial public offering price. Our stock price could be subject to wide fluctuations in response to a variety of factors, including but not limited to:

- the success of competitive products or technologies;
- adverse results or delays in preclinical or clinical trials;
- any inability to obtain additional funding;
- any delay in filing an IND, BLA or other regulatory submission for any of our product candidates and any
 adverse development or perceived adverse development with respect to the applicable regulatory agency's
 review of that IND, BLA or other regulatory submission;
- the perception of limited market sizes or pricing for our product candidates;
- failure to successfully develop and commercialize our product candidates;
- post-marketing safety issues relating to our product candidates or biosimilars generally;
- failure to maintain our existing strategic collaborations or enter into new collaborations;
- failure by us or our licensors and strategic collaboration partners to prosecute, maintain or enforce our intellectual property rights;
- changes in laws or regulations applicable to our products;
- any inability to obtain adequate product supply for our product candidates or the inability to do so at acceptable prices;
- adverse regulatory decisions:
- introduction of new products, services or technologies by our competitors, including biosimilars, interchangeable biosimilars, and biobetter versions of the same molecules we are targeting;
- failure to meet or exceed financial projections we may provide to the public;
- failure to meet or exceed the financial projections of the investment community;
- the perception of the pharmaceutical industry by the public, legislatures, regulators and the investment community;

- announcements of significant acquisitions, strategic partnerships, joint ventures or capital commitments by us, our strategic collaboration partners or our competitors;
- disputes or other developments relating to proprietary rights, including patents, litigation matters and our ability to obtain patent protection for our technologies;
- additions or departures of key scientific or management personnel;
- significant lawsuits, including stockholder litigation and litigation filed by us or filed against us pertaining to patent infringement or other violations of intellectual property rights;
- the outcomes of any citizens petitions filed by parties seeking to restrict or limit the approval of biosimilar products;
- if securities or industry analysts do not publish research or reports about our business or if they issue an adverse or misleading opinion regarding our stock;
- changes in the market valuations of similar companies;
- general economic, industry or market conditions;
- sales of our common stock by us or our stockholders in the future:
- trading volume of our common stock;
- issuance of patents to third parties that could prevent our ability to commercialize our product candidates;
- reductions in the prices of reference products that could reduce the overall market opportunity for our product candidates intended as biosimilars to such reference products;
- the loss of one or more employees constituting our leadership team;
- changes in biosimilar regulatory requirements that could make it more difficult for us to develop our product candidates; and
- the other factors described in this "Risk Factors" section.

In addition, biopharmaceutical companies in particular have experienced extreme price and volume fluctuations that have often been unrelated or disproportionate to the operating performance of these companies. Broad market and industry factors may negatively affect the market price of our common stock, regardless of our actual operating performance.

Our principal stockholders and management own a significant percentage of our stock and will be able to exert significant control over matters subject to stockholder approval, preventing new investors from influencing significant corporate decisions.

As of December 31, 2015, our executive officers, directors, five percent stockholders and their affiliates beneficially owned approximately % of our voting stock and, upon closing of this offering, that same group will beneficially own approximately % of our outstanding voting stock (assuming no exercise of the underwriters' option to purchase additional shares and excluding shares purchased by any such holders in this offering). In addition, such holders may further increase their ownership in our company pursuant to the directed share program. At our request, the underwriters have reserved shares of our common stock, or 5% of the shares being offered by this prospectus (excluding the shares of common stock that may be issued upon the underwriters' exercise of their over-allotment option to purchase additional shares), for sale at the initial public offering price to our employees, executive officers, directors, stockholders and others through a directed share program. The interests of this group of stockholders may not coincide with the interests of other stockholders. Therefore, even after this offering, these stockholders will have the ability to influence us through their ownership positions, which may prevent or discourage unsolicited acquisition proposals or offers for our common stock that you may believe are in your best interest as one of our stockholders.

Our quarterly operating results may fluctuate significantly or may fall below the expectations of investors or securities analysts, each of which may cause our stock price to fluctuate or decline.

Our quarterly operating results may fluctuate significantly, which makes it difficult for us to predict our future operating results. These fluctuations may occur due to a variety of factors, many of which are out of our control and may be difficult to predict, including but not limited to:

- our ability to successfully develop, market and sell ONS-3010, ONS-1045, ONS-1050 and our other product candidates:
- the cost of clinical development for ONS-3010, ONS-1045 and ONS-1050;
- lacktriangledown the success of competitive products or technologies;
- results of clinical trials of our product candidates or those of our competitors;

- developments or disputes concerning patent applications, issued patents or other proprietary rights;
- the recruitment or departure of key personnel;
- the level of expenses related to any of our product candidates or clinical development programs;
- the results of our efforts to discover, develop, manufacture, acquire or in-license additional product candidates;
- actual or anticipated changes in estimates as to financial results, development timelines or recommendations by securities analysts:
- variations in our financial results or those of companies that are perceived to be similar to us;
- market conditions in the pharmaceutical and biotechnology sectors;
- general economic, industry and market conditions; and
- the other factors described in this "Risk Factors" section.

If our quarterly operating results fall below the expectations of investors or securities analysts, the price of our common stock could decline substantially. Furthermore, any quarterly fluctuations in our operating results may, in turn, cause the price of our stock to fluctuate substantially. We believe that quarterly comparisons of our financial results are not necessarily meaningful and should not be relied upon as an indication of our future performance.

If securities or industry analysts do not publish research, or publish unfavorable research, about our business, our stock price and trading volume could decline.

The trading market for our common stock will depend in part on the research and reports that securities or industry analysts publish about us or our business, our market and our competitors. We do not have any control over these analysts. If one or more of the analysts who cover us downgrade our shares or change their opinion of our shares, our share price would likely decline. If one or more of these analysts cease coverage of our company or fail to regularly publish reports on us, we could lose visibility in the financial markets, which could cause our share price or trading volume to decline.

We are an "emerging growth company" and, due to the reduced reporting requirements applicable to emerging growth companies, certain investors may find investing in our common stock less attractive.

We are an "emerging growth company," as defined in the Jumpstart Our Business Startups Act of 2012, or the JOBS Act. For as long as we continue to be an emerging growth company, we may take advantage of exemptions from various reporting requirements that are applicable to other public companies that are not emerging growth companies, including not being required to comply with the auditor attestation requirements of Section 404, reduced disclosure obligations regarding executive compensation in this prospectus and our periodic reports and proxy statements and exemptions from the requirements of holding a nonbinding advisory vote on executive compensation and stockholder approval of any golden parachute payments not previously approved. We could be an emerging growth company for up to five years, although circumstances could cause us to lose that status earlier, including if the market value of our common stock held by non-affiliates exceeds \$700 million as of March 31 (the end of our second fiscal quarter) of any fiscal year before that time or if we have total annual gross revenue of \$1.0 billion or more during any fiscal year before that time, in which cases we would no longer be an emerging growth company as of the following September 30 (the last day of our fiscal year) or, if we issue more than \$1.0 billion in non-convertible debt during any three-year period before that time, we would cease to be an emerging growth company immediately. We cannot predict if investors will find our common stock less attractive because we may rely on this exemption. If some investors find our common stock less attractive as a result, there may be a less active trading market for our common stock and our stock price may be more volatile.

We will incur costs and demands upon management as a result of complying with the laws and regulations affecting public companies in the United States, which may harm our operating results.

As a public company listed in the United States, we will incur significant additional legal, accounting and other expenses. In addition, changing laws, regulations and standards relating to corporate governance and public disclosure, including regulations implemented by the SEC and NASDAQ, may increase legal and financial compliance costs and make some activities more time-consuming. These laws, regulations and standards are subject to varying interpretations, and as a result, their application in practice may evolve over time as new guidance is provided by regulatory and governing bodies. We intend to invest resources to comply with evolving laws, regulations and standards, and this investment may result in increased general and administrative expenses and a diversion of management's time and attention from revenue-generating activities to compliance activities. If, notwithstanding our efforts to comply with new laws, regulations and standards, we fail to comply, regulatory authorities may initiate legal proceedings against us, and our business may be harmed.

Further, failure to comply with these laws, regulations and standards might also make it more difficult for us to obtain certain types of insurance, including director and officer liability insurance, and we might be forced to accept reduced

policy limits and coverage or incur substantially higher costs to obtain the same or similar coverage. The impact of these events could also make it more difficult for us to attract and retain qualified persons to serve on our board of directors, on committees of our board of directors or as members of senior management.

If you purchase our common stock in this offering, you will incur immediate and substantial dilution in the book value of your shares.

Investors purchasing shares of common stock in this offering will pay a price per share that substantially exceeds the pro forma book value per share of our tangible assets after subtracting our liabilities. As a result, investors purchasing shares of common stock in this offering will incur immediate dilution of \$ per share, based on an assumed initial public offering price of \$ per share, the midpoint of the price range set forth on the cover of this prospectus, and our pro forma net tangible book value as of December 31, 2015. For information on how the foregoing amounts were calculated, see the section titled "Dilution."

This dilution is due to the substantially lower price paid by our investors who purchased shares prior to this offering as compared to the price offered to the public in this offering, and the exercise of stock options granted to our employees. As a result of the dilution to investors purchasing shares in this offering, investors may receive significantly less than the purchase price paid in this offering, if anything, in the event of our liquidation.

Sales of a substantial number of shares of our common stock in the public market could cause our stock price to fall.

If our existing stockholders sell or indicate an intention to sell substantial amounts of our common stock in the public market after the lock-up and other legal restrictions on resale discussed in this prospectus lapse, the market price of our common stock could decline. Based upon the number of shares of common stock, on an as-converted basis, outstanding as of December 31, 2015, upon the closing of this offering we will have outstanding a total of shares of common stock, assuming no exercise of the underwriters' option to purchase additional shares. Of these shares, as of the date of this prospectus, approximately shares of our common stock, plus any shares sold upon exercise of the underwriters' option to purchase additional shares, will be freely tradable, without restriction, in the public market immediately following this offering, assuming that current stockholders do not purchase shares in this offering.

The lock-up agreements pertaining to this offering will expire 180 days from the date of this prospectus. After the lock-up agreements expire, based upon the number of shares of common stock, on an as-converted basis, outstanding as of December 31, 2015 and the issuance of shares upon vesting of restricted stock unit awards, or RSUs, up to an additional shares of common stock will be eligible for sale in the public market, of which approximately shares are held by directors, executive officers and other affiliates and will be subject to the manner of sale, volume limitations and public reporting requirements of Rule 144 under the Securities Act of 1933, as amended, or the Securities Act. Jefferies LLC and Barclays Capital Inc. may however, in their sole discretion, permit our officers, directors and other stockholders who are subject to these lock-up agreements to sell shares prior to the expiration of the lock-up agreements.

After this offering, the holders of approximately shares of our common stock, or approximately % of our outstanding common stock as of December 31, 2015, will be entitled to rights with respect to the registration of their shares under the Securities Act, subject to the lock-up agreements described above. Registration of these shares under the Securities Act would result in the shares becoming freely tradable without restriction under the Securities Act, except for shares purchased by affiliates. Any sales of securities by these stockholders could have a negative impact on the market price of our common stock.

Future sales and issuances of our common stock or rights to purchase common stock, including pursuant to our equity incentive plans, could result in additional dilution of the percentage ownership of our stockholders and could cause our stock price to fall.

We will need additional capital in the future to continue our planned operations. To the extent we raise additional capital by issuing equity securities, our stockholders may experience substantial dilution. We may sell common stock, convertible securities or other equity securities in one or more transactions at prices and in a manner we determine from time to time. If we sell common stock, convertible securities or other equity securities in more than one transaction, investors may be materially diluted by subsequent sales. These sales may also result in material dilution to our existing stockholders, and new investors could gain rights superior to our existing stockholders.

Pursuant to the 2015 Equity Incentive Plan, or the 2015 Plan, our management is authorized to grant stock options and other equity-based awards to our employees, directors and consultants. Under the 2015 Plan, the number of shares of our common stock initially reserved for issuance was 4,300,000 shares. The number of shares available for future grant under the 2015 Plan will be increased by (i) the number of shares pursuant to outstanding awards under the 2015 Plan that are forfeited or lapse unexercised and which following the effective date are not issued under the 2015 Plan, (ii) 3% of the

shares of stock outstanding on the 60th day following the date of the underwriting agreement for this offering and (iii) an annual increase on January 1 beginning in 2017 and ending in 2025, equal to 3% of the shares of stock outstanding as of December 31st of the immediately preceding year, or such smaller number of shares as determined by our board of directors. Pursuant to the 2016 Employee Stock Purchase Plan, or the ESPP, which will become effective upon the execution of the underwriting agreement related to this offering, upon implementation of an offering under the ESPP, eligible employees will be able to acquire shares of our common stock at a discount to the prevailing market price, and an aggregate of 1,000,000 shares will initially be available for issuance under the ESPP. The number of shares available for issuance under the ESPP will automatically increase on the first day of each fiscal year beginning in 2016 and ending in 2025, equal to the lesser of (i) 1% of the shares of common stock outstanding on December 31st of the immediately preceding calendar year, (ii) 1,760,000 shares of common stock, subject to adjustments as provided in the ESPP or (iii) such smaller number of shares as determined by our board of directors. If our board of directors does not elect to reduce the annual increases in the number of shares available for future grant under the 2015 Plan or the ESPP, our stockholders may experience additional dilution, which could cause our stock price to fall.

We will have broad discretion in the use of the net proceeds from this offering and may invest or spend the proceeds in ways with which you do not agree and in ways that may not yield a return.

Our management will have broad discretion in the application of the net proceeds from this offering, including for any of the purposes described in the section titled "Use of Proceeds," and you will not have the opportunity as part of your investment decision to assess whether the net proceeds are being used appropriately. Because of the number and variability of factors that will determine our use of the net proceeds from this offering, their ultimate use may vary from their currently intended use. The failure by our management to apply these funds effectively could harm our business. Pending their use, we may invest the net proceeds from this offering in investment-grade, interest-bearing securities. These investments may not yield a favorable return to our stockholders.

Our ability to use our net operating loss carryforwards and certain other tax attributes may be limited.

We have incurred substantial losses during our history and do not expect to become profitable in the near future, and we may never achieve profitability. To the extent that we continue to generate taxable losses, unused losses will carry forward to offset future taxable income, if any, until such unused losses expire. Under Sections 382 and 383 of the Internal Revenue Code of 1986, as amended, if a corporation undergoes an "ownership change," generally defined as a greater than 50 percentage point change (by value) in its equity ownership by certain stockholders over a three-year period, the corporation's ability to use its pre-change net operating loss carryforwards, or NOLs, and other pre-change tax attributes (such as research tax credits) to offset its post-change income or taxes may be limited. We may have experienced ownership changes in the past and may experience ownership changes in the future as a result of this offering and/or subsequent shifts in our stock ownership (some of which shifts are outside our control). As a result, if we earn net taxable income, our ability to use our pre-change NOLs to offset such taxable income will be subject to limitations. Similar provisions of state tax law may also apply to limit our use of accumulated state tax attributes. In addition, at the state level, there may be periods during which the use of NOLs is suspended or otherwise limited, which could accelerate or permanently increase state taxes owed. As a result, even if we attain profitability, we may be unable to use a material portion of our NOLs and other tax attributes, which could adversely affect our future cash flows.

We do not intend to pay dividends on our common stock so any returns will be limited to the value of our stock.

We have never declared or paid any cash dividends on our common stock. We currently anticipate that we will retain future earnings for the development, operation and expansion of our business and do not anticipate declaring or paying any cash dividends for the foreseeable future. Any return to stockholders will therefore be limited to the appreciation of their stock.

Provisions in our amended and restated certificate of incorporation and amended and restated bylaws, as well as provisions of Delaware law, could make it more difficult for a third party to acquire us or increase the cost of acquiring us. even if doing so would benefit our stockholders or remove our current management.

Our amended and restated certificate of incorporation, amended and restated bylaws and Delaware law contain provisions that may have the effect of delaying or preventing a change in control of us or changes in our management. Our charter documents will also contain other provisions that could have an anti-takeover effect, such as:

- establishing a classified board of directors so that not all members of our board of directors are elected at one time;
- permitting the board of directors to establish the number of directors and fill any vacancies and newly created directorships;
- providing that directors may only be removed for cause;

- prohibits cumulative voting for directors;
- requiring super-majority voting to amend some provisions in our amended and restated certificate of incorporation and amended and restated bylaws;
- authorizing the issuance of "blank check" preferred stock that our board of directors could use to implement a stockholder rights plan;
- eliminating the ability of stockholders to call special meetings of stockholders; and
- prohibiting stockholder action by written consent, which requires all stockholder actions to be taken at a meeting of our stockholders.

These provisions, alone or together, could delay, deter or prevent hostile takeovers and changes in control or changes in our management.

In addition, because we are incorporated in Delaware, we are governed by the provisions of Section 203 of the Delaware General Corporation Law, which limits the ability of stockholders owning in excess of 15% of our outstanding voting stock to merge or combine with us.

Any provision of our amended and restated certificate of incorporation or amended and restated bylaws or Delaware law that has the effect of delaying or deterring a change in control could limit the opportunity for our stockholders to receive a premium for their shares of our common stock and could also affect the price that some investors are willing to pay for our common stock

Our amended and restated certificate of incorporation will provide that the Court of Chancery of the State of Delaware will be the exclusive forum for substantially all disputes between us and our stockholders, which could limit our stockholders' ability to obtain a favorable judicial forum for disputes with us or our directors, officers or employees.

Our amended and restated certificate of incorporation provides that the Court of Chancery of the State of Delaware is the exclusive forum for any derivative action or proceeding brought on our behalf; any action asserting a breach of fiduciary duty; any action asserting a claim against us arising pursuant to the Delaware General Corporation Law, our amended and restated certificate of incorporation or our amended and restated bylaws; or any action asserting a claim against us that is governed by the internal affairs doctrine. The choice of forum provision may limit a stockholder's ability to bring a claim in a judicial forum that it finds favorable for disputes with us or our directors, officers or other employees, which may discourage such lawsuits against us and our directors, officers and other employees. If a court were to find the choice of forum provision contained in our amended and restated certificate of incorporation to be inapplicable or unenforceable in an action, we may incur additional costs associated with resolving such action in other jurisdictions, which could harm our business and financial condition.

If we fail to develop and maintain proper and effective internal controls over financial reporting, the accuracy and timeliness of our financial reporting may be adversely affected.

We will be required, pursuant to Section 404, to furnish a report by management on, among other things, the effectiveness of our internal control over financial reporting for the first fiscal year beginning after the effective date of this offering. This assessment will need to include disclosure of any material weaknesses identified by our management in our internal control over financial reporting. Our independent registered public accounting firm will not be required to attest to the effectiveness of our internal control over financial reporting until our first annual report required to be filed with the SEC following the later of the date we are deemed to be an "accelerated filer" or a "large accelerated filer," each as defined in the Securities Exchange Act of 1934, as amended, or the Exchange Act, or the date we are no longer an "emerging growth company," as defined in the JOBS Act. We will be required to disclose changes made in our internal control and procedures on a quarterly basis. To comply with the requirements of being a public company, we may need to undertake various actions, such as implementing new internal controls and procedures and hiring accounting or internal audit staff. We are beginning the costly and challenging process of compiling the system and processing documentation necessary to perform the evaluation needed to comply with Section 404, and we may not be able to complete our evaluation, testing and any required remediation in a timely fashion.

SPECIAL NOTE REGARDING FORWARD-LOOKING STATEMENTS

This prospectus contains forward-looking statements about us and our industry that involve substantial risks and uncertainties. All statements other than statements of historical facts contained in this prospectus, including statements regarding our future financial condition, business strategy and plans, and objectives of management for future operations, are forward-looking statements. In some cases, you can identify forward-looking statements by terminology such as "aim," "anticipate," "assume," "believe," "contemplate," "continue," "could," "design," "due," "estimate," "expect," "goal," "intend," "may," "objective," "plan," "predict," "positioned," "potential," "seek," "should," "target," "will," "would" and other similar expressions that are predictions of or indicate future events and future trends, or the negative of these terms or other comparable terminology.

We have based these forward-looking statements largely on our current expectations and projections about future events and financial trends that we believe may affect our financial condition, results of operations, business strategy and financial needs. These forward-looking statements are subject to a number of known and unknown risks, uncertainties and assumptions, including risks described in the section titled "Risk Factors" and elsewhere in this prospectus, regarding, among other things:

- the timing and the success of the design of the clinical trials and planned clinical trials of ONS-3010, ONS-1045 and ONS-1050:
- whether the results of our clinical trials will be sufficient to support domestic or global regulatory approvals;
- our ability to obtain and maintain regulatory approval of our current and future biosimilar product candidates;
- our expectations regarding the potential market size and the size of the patient populations for our biosimilar product candidates, if approved, for commercial use;
- our ability to fund our working capital requirements;
- the implementation of our business model and strategic plans for our business and biosimilar product candidates;
- the initiation, timing, progress and results of future preclinical studies and clinical trials and our research and development programs;
- developments or disputes concerning our intellectual property or other proprietary rights;
- our ability to maintain and establish collaborations or obtain additional funding:
- the rate and degree of market acceptance of our current and future biosimilar product candidates;
- our expectation that our existing capital resources and the net proceeds from this offering will be sufficient to enable us to complete our planned clinical trials;
- our expectations regarding government and third-party payor coverage and reimbursement;
- our ability to compete in the markets we serve; and
- the factors that may impact our financial results.

These risks are not exhaustive. Other sections of this prospectus may include additional factors that could harm our business and financial performance. Moreover, we operate in a very competitive and rapidly changing environment. New risk factors emerge from time to time, and it is not possible for our management to predict all risk factors, nor can we assess the impact of all factors on our business or the extent to which any factor, or combination of factors, may cause actual results to differ materially from those contained in, or implied by, any forward-looking statements.

You should not rely upon forward-looking statements as predictions of future events. We cannot assure you that the events and circumstances reflected in the forward-looking statements will be achieved or occur. Although we believe that the expectations reflected in the forward-looking statements are reasonable, we cannot guarantee future results, levels of activity, performance or achievements. Except as required by law, we undertake no obligation to update publicly any forward-looking statements for any reason after the date of this prospectus or to conform these statements to actual results or to changes in our expectations.

You should read this prospectus and the documents that we reference in this prospectus and have filed as exhibits to the registration statement of which this prospectus is a part with the understanding that our actual future results, levels of activity, performance and achievements may be materially different from what we expect. We qualify all of our forward-looking statements by these cautionary statements.

MARKET AND INDUSTRY DATA

Unless otherwise indicated, information contained in this prospectus concerning our industry and the market in which we operate, including our general expectations and market position, market opportunity and market size, is based on information from various sources including the independent industry publication set forth below and is subject to a number of assumptions and limitations. Although we are responsible for all of the disclosure contained in this prospectus and we believe the information from the industry publication and other third-party sources included in this prospectus is reliable, such information is inherently imprecise. The industry in which we operate is subject to a high degree of uncertainty and risk due to a variety of factors, including those described in the section titled "Risk Factors." These and other factors could cause results to differ materially from those expressed in the estimates made by the independent parties and by us.

USE OF PROCEEDS

We estimate that we will receive net proceeds from the sale of shares of common stock that we are selling in this offering of approximately \$\\$ million at an assumed initial public offering price of \$\\$ per share, the midpoint of the price range set forth on the cover page of this prospectus, after deducting estimated underwriting discounts and commissions and estimated offering expenses payable by us. If the underwriters exercise in full their over-allotment option to purchase additional shares, we estimate that our net proceeds will be approximately \$\\$ million, after deducting estimated underwriting discounts and commissions and estimated offering expenses payable by us.

A \$1.00 increase (decrease) in the assumed initial public offering price of \$ per share would increase (decrease) the net proceeds to us from this offering by approximately \$ million, assuming the number of shares offered by us, as set forth on the cover page of this prospectus, remains the same and after deducting underwriting discounts and commissions and estimated offering expenses payable by us. We may also increase or decrease the number of shares we are offering. Similarly, an increase (decrease) of 1,000,000 shares in the number of shares offered by us would increase (decrease) the net proceeds to us from this offering by approximately \$ million, assuming that the assumed initial public offering price remains the same, and after deducting estimated underwriting discounts and commissions and estimated offering expenses payable by us. We do not expect that a change in the initial price to the public or the number of shares by these amounts would have a material effect on our uses of the proceeds from this offering, although it may accelerate the time at which we will need to seek additional capital.

We currently intend to use the net proceeds from this offering as follows:

- approximately \$ million to advance clinical development of ONS-3010 through Phase 3 clinical trials;
- approximately \$ million to advance clinical development of ONS-1045 into Phase 3 clinical trials;
- approximately \$ million to advance clinical development of ONS-1050 and ONS-4010 into Phase 1 clinical trials;
- approximately \$ million to complete expansion of our state-of-the-art research and development facility;
- approximately \$ million to fund our other ongoing research and development activities; and
- the remainder for working capital and general corporate purposes.

However, due to the uncertainties inherent in the product development process, it is difficult to estimate with certainty the exact amounts of the net proceeds from this offering that may be used for the above purposes. Our management will have broad discretion over the use of the net proceeds from this offering. The amounts and timing of our expenditures will depend upon numerous factors including the results of our research and development efforts, the timing and success of preclinical studies and any ongoing clinical trials or clinical trials we may commence in the future, the timing of regulatory submissions and the amount of cash obtained through current and any future collaborations.

We believe opportunities may exist from time to time to expand our current business through acquisitions or in-licenses of complementary companies, medicines or technologies. While we have no current agreements, commitments or understandings for any specific acquisitions or in-licenses at this time, we may use a portion of the net proceeds for these purposes.

Pending the use of the proceeds from this offering as described above, we intend to invest the net proceeds in interestbearing investment-grade securities or government securities.

DIVIDEND POLICY

We have never declared or paid cash dividends on our capital stock, and we do not currently intend to pay any cash dividends on our capital stock in the foreseeable future. We currently intend to retain all available funds and any future earnings, if any, to fund the development and expansion of our business and we do not anticipate paying any cash dividends in the foreseeable future. Any future determination related to dividend policy will be made at the discretion of our board of directors subject to applicable laws, and will depend upon, among other factors, our results of operations, financial condition, contractual restrictions and capital requirements. Our future ability to pay cash dividends on our stock may also be limited by the terms of any future debt, issuances of preferred securities or terms of future credit facilities.

CAPITALIZATION

The following table sets forth our cash and capitalization as of December 31, 2015 on:

- an actual basis;
- a pro forma basis to give effect to (i) the issuance of 301,152 shares of common stock for aggregate net proceeds of approximately \$2.5 million in January 2016, (ii) cash proceeds of approximately \$2.7 million received subsequent to December 31, 2015 related to stock issued in December 2015, (iii) the conversion of 11,819 shares of Series A preferred stock into shares of common stock immediately prior to the closing of this offering (assuming an initial public offering price of \$ per share, the midpoint of the price range set forth on the cover page of this prospectus), and (iv) the reclassification of 6,000,000 shares of redeemable common stock to common stock upon lapse of a contractual redemption right; and
- a pro forma as adjusted basis, to give further effect to (i) the sale of shares of common stock in this offering at an assumed initial public offering price of \$ per share, the midpoint of the estimated price range set forth on the cover page of this prospectus, after deducting estimated underwriting discounts and commissions, and estimated offering expenses payable by us, and (ii) the filing of our amended and restated certificate of incorporation.

Actual data as of December 31, 2015 in the table below is derived from our unaudited consolidated financial statements. The pro forma data included in the table below is also unaudited. You should read this table together with the section titled "Selected Consolidated Financial Data," our consolidated financial statements and the related notes thereto appearing elsewhere in this prospectus and the section titled "Management's Discussion and Analysis of Financial Condition and Results of Operations" in this prospectus.

	Aso	of December 31, 20	15
		(Unaudited)	
	Actual	Pro forma	Pro forma as adjusted ⁽¹⁾
Cash	\$ 5,582,255	\$ 10,806,901	\$
Debt obligations, current and long term	15,488,800	15,488,800	
Redeemable preferred stock, common stock and noncontrolling interests	16,366,212		
Stockholders' equity (deficit):			
Series A preferred stock, par value \$0.01 per share: 10,000,000 shares authorized, 11,819 shares issued and outstanding actual; no shares issued and outstanding pro forma and pro forma as adjusted	118	_	
Common stock, par value \$0.01 per share; 100,000,000 shares authorized, 42,572,738 shares issued and outstanding actual and pro forma; 200,000,000 shares authorized, shares issued and outstanding pro forma as adjusted	425,727	488,857	
Additional paid-in capital	79,587,837	98,416,206	
Accumulated deficit	(110,928,498)	(110,928,498)	
Total stockholders' equity (deficit)	(30,914,816)	(12,023,435)	
Total capitalization	\$ 940,196	\$ 3,465,365	\$

⁽¹⁾ A \$1.00 increase (decrease) in the assumed initial public offering price of \$ per share, the midpoint of the price range set forth on the cover page of this prospectus, would increase (decrease) each of cash, additional paid-in capital, total stockholders' equity and total capitalization by approximately \$ million, assuming that the number of shares offered by us, as set forth on the cover page of this prospectus, remains the same, and after deducting estimated underwriting discounts and commissions and estimated offering expenses payable by us. Similarly, an increase (decrease) of 1,000,000 shares in the number of shares offered by us would increase (decrease) cash, additional paid-in capital, total stockholders' equity and total capitalization by approximately \$ million, assuming an initial public offering price of \$ per share, the midpoint of the price range set forth on the cover page of this prospectus, and after deducting estimated underwriting discounts and commissions and estimated offering expenses payable by us. The pro forma as adjusted information discussed above is illustrative only and will be adjusted based on the actual initial public offering price and other terms of this offering determined at pricing.

The number of shares of common stock in the table above is based on Shares of common stock outstanding as of December 31, 2015, and excludes the following:

- 860,880 shares of common stock issuable upon the exercise of PSUs whose terms provide for settlement in shares of common stock or cash at our discretion, with a weighted-average exercise price of \$1.84;
- 3,678,425 shares issuable upon vesting of restricted stock unit awards, or RSUs, granted under the 2015 Plan;
- 621,575 shares of common stock reserved for future issuance under the 2015 Plan, as well as any automatic increases in the number of shares of common stock reserved for future issuance under this plan; and
- 1,000,000 shares of common stock reserved for future issuance under the ESPP, as well as any automatic increases in the number of shares of common stock reserved for future issuance under this plan, which will become effective upon the execution of the underwriting agreement related to this offering.

DILUTION

If you invest in our common stock, your interest will be diluted to the extent of the difference between the initial public offering price per share of our common stock and the pro forma as adjusted net tangible book value per share of our common stock immediately after the closing of this offering.

As of December 31, 2015, we had a historical net tangible book value (deficit) of \$(30.9) million, or \$(0.73) per share of common stock. Our historical net tangible book value (deficit) represents total tangible assets less our total liabilities. Historical net tangible book value per share is our historical net tangible book value (deficit) divided by the number of shares of common stock outstanding as of December 31, 2015.

Our pro forma net tangible book value (deficit) was \$\frac{\text{million, or \$\frac{\text{per share.}} Pro forma net tangible book value (deficit) per share represents our total tangible assets less our total liabilities, divided by the number of outstanding shares of common stock, after giving effect to (i) the issuance of 301,152 shares of common stock for aggregate net proceeds of approximately \$2.5 million in January 2016, (ii) cash proceeds of approximately \$2.7 million received subsequent to December 31, 2015 related to stock issued in December 2015, (iii) the conversion of 11,819 shares of Series A preferred stock into shares of common stock immediately prior to the closing of this offering (assuming an initial public offering price of \$\frac{\text{per share,}}{\text{the midpoint of the price range set forth on the cover page of this prospectus), and (iv) the reclassification of 6,000,000 shares of redeemable common stock to common stock upon lapse of a contractual redemotion right.

After giving further effect to the sale of shares of common stock in this offering at an assumed initial public offering price of \$ per share, the midpoint of the price range set forth on the cover page of this prospectus, and after deducting the underwriting discounts and commissions and estimated offering expenses payable by us, our pro forma as adjusted net tangible book value (deficit) as of December 31, 2015 would have been approximately \$ million, or \$ per share. This represents an immediate increase in pro forma as adjusted net tangible book value (deficit) of \$ per share to our existing stockholders and an immediate dilution of \$ per share to new investors purchasing common stock in this offering.

The following table illustrates this dilution on a per share basis to new investors:

Assumed initial public offering price per share	\$
Historical net tangible book value (deficit) per share at December 31, 2015 \$ (0	73)
Increase per share attributable to pro forma adjustments	
Pro forma net tangible book value (deficit) per share at December 31, 2015	
Increase in pro forma net tangible book value (deficit) per share attributable to this offering	
Pro forma as adjusted net tangible book value per share after this offering	
Dilution in net tangible book value per share to new investors in this offering	\$

A \$1.00 increase (decrease) in the assumed initial public offering price of \$ would increase (decrease) our pro forma as adjusted net tangible book value per share after this offering by \$ per share and the dilution to new investors by \$ per share, assuming the number of shares offered by us, as set forth on the cover page of this prospectus, remains the same, and after deducting estimated underwriting discounts and commissions and estimated offering expenses payable by us. Similarly, each increase (decrease) of 1,000,000 shares in the number of shares of common stock offered by us would increase (decrease) the pro forma as adjusted net tangible book value by \$ per share and the dilution to new investors by \$ per share, assuming the assumed initial public offering price remains the same, and after deducting estimated underwriting discounts and commissions and estimated offering expenses payable by us.

If the underwriters exercise in full their over-allotment option to purchase additional shares from us, the pro forma as adjusted net tangible book value per share after giving effect to this offering would be \$ per share, representing an immediate increase to existing stockholders of \$ per share and immediate dilution to investors in this offering of \$ per share.

The following table summarizes, as of December 31, 2015, on a pro forma as adjusted basis described above:

- the total number of shares of common stock purchased from us by our existing stockholders and by new investors purchasing shares in this offering;
- the total consideration paid to us by our existing stockholders and by new investors purchasing common stock in this offering, assuming an initial public offering price of \$ per share, the midpoint of the price range set forth on the cover page of this prospectus, before deducting estimated underwriting discounts and commissions and estimated offering expenses payable by us in connection with this offering; and
- the average price per share paid by existing stockholders and by new investors purchasing shares in this offering.

	Shares Purchased		Total Consideration		Average Price	
	Number	Percent	Amount	Percent	Per Share	
Existing Stockholders		%	\$	%	\$	
New Investors						
Total		100%	\$	100%		

The total number of shares of common stock reflected in the discussion and tables above is based on (i) shares of common stock outstanding as of December 31, 2015, (ii) the issuance of 301,152 shares of common stock for aggregate net proceeds of approximately \$2.5 million in January 2016, (iii) cash proceeds of approximately \$2.7 million received subsequent to December 31, 2015 related to stock issued in December 2015, (iv) the conversion of 11,819 shares of Series A preferred stock into shares of common stock immediately prior to the closing of this offering (assuming an initial public offering price of \$ per share, the midpoint of the price range set forth on the cover page of this prospectus) and (v) the reclassification of 6,000,000 shares of redeemable common stock to common stock upon lapse of a contractual redemption right, and excludes the following outstanding as of December 31, 2015:

- 860,880 shares of common stock issuable upon the exercise of PSUs whose terms provide for settlement in shares of common stock or cash at our discretion, with a weighted-average exercise price of \$1.84;
- 3,678,425 shares issuable upon vesting of restricted stock unit awards, or RSUs, granted under the 2015 Plan;
- 621,575 shares of common stock reserved for future issuance under the 2015 Plan, as well as any automatic increases in the number of shares of common stock reserved for future issuance under this plan; and
- 1,000,000 shares of common stock reserved for future issuance under the ESPP, as well as any automatic increases in the number of shares of common stock reserved for future issuance under this plan, which will become effective upon the execution of the underwriting agreement related to this offering.

A \$1.00 increase (decrease) in the assumed initial public offering price of \$ per share would increase (decrease) total consideration paid by new investors by \$ million and increase (decrease) the total consideration paid to us by new investors by \$ %, assuming the number of shares offered by us, as set forth on the cover page of this prospectus, remains the same, and before deducting estimated underwriting discounts and commissions and estimated offering expenses payable by us.

SELECTED CONSOLIDATED FINANCIAL DATA

You should read the following selected consolidated financial data together with the section titled "Management's Discussion and Analysis of Financial Condition and Results of Operations" and our consolidated financial statements and the related notes included in this prospectus. The selected consolidated financial data included in this section are not intended to replace the consolidated financial statements and related notes included elsewhere in this prospectus.

The consolidated statements of operations data for the years ended September 30, 2014 and 2015 and the consolidated balance sheet data as of September 30, 2014 and 2015 are derived from our audited consolidated financial statements included elsewhere in this prospectus. The consolidated statements of operations data for the three months ended December 31, 2014 and 2015 and the consolidated balance sheet data as of December 31, 2015 have been derived from our unaudited interim financial statements included elsewhere in this prospectus and have been prepared on the same basis as the audited financial statements. In the opinion of management, the unaudited data reflects all adjustments, consisting only of normal recurring adjustments, necessary for a fair presentation of the financial information in those statements. Our historical results are not necessarily indicative of the results to be expected in the future, and our interim period results are not necessarily indicative of results to be expected for a full year or any other interim period.

	Year Ended S	eptember 30,	Three Months En	ded December 31,
	2014	2015	2014	2015
			(Unai	udited)
Consolidated Statements of Operations Data:				
Collaboration revenues	\$ 9,050,542	\$ 5,219,237	\$ 2,934,555	\$ 994,894
Operating expenses:				
Research and development	14,124,631	38,876,040	5,840,030	12,733,976
General and administrative	7,318,314	12,905,823	1,237,839	4,674,155
	21,442,945	51,781,863	7,077,869	17,408,131
Loss from operations	(12,392,403)	(46,562,626)	(4,143,314)	(16,413,237)
Interest expense	901,052	2,297,339	357,580	398,975
Loss before income taxes	(13,293,455)	(48,859,965)	(4,500,894)	(16,812,212)
Income tax expense (benefit)	439,018	(190,111)	406,363	52,000
Net loss	(13,732,473)	(48,669,854)	(4,907,257)	(16,864,212
Less: Net loss attributable to noncontrolling interests	_	(1,276,571)	_	_
Net loss attributable to Oncobiologics, Inc.	(13,732,473)	(47,393,283)	(4,907,257)	(16,864,212
Accretion of redeemable preferred stock and noncontrolling interests	(3,588,996)	(4,306,488)	(1,071,164)	(939,539
Deemed dividends upon the repurchase of Series A redeemable preferred stock and redeemable noncontrolling interests	(3,336,855)	(1,298,631)	(1,230,998)	
Net loss attributable to common stockholders of Oncobiologics, Inc.	\$(20,658,324)	\$(52,998,402)	\$ (7,209,419)	\$ (17,803,751
Per share information: ⁽¹⁾				
Net loss per share of common stock, basic and diluted	\$ (0.70)	\$ (1.57)	\$ (0.22)	\$ (0.40
Weighted-average shares outstanding, basic and diluted	29,358,331	33,650,012	32,352,231	45,062,494
Pro forma net loss per share of common stock – basic and diluted (unaudited)				_
Pro forma weighted-average shares outstanding (unaudited)				

⁽¹⁾ See Note 3 to our annual and interim consolidated financial statements, included elsewhere in this prospectus for an explanation of

the calculations of our basic and diluted net loss per common share, pro forma net loss per common share and the weighted-average number of shares used in the computation of the per share amounts.

	As of September 30,		As of December 31.	
	2014	2015	2015	
			(Unaudited)	
Consolidated Balance Sheet Data:				
Cash	\$ 2,349,313	\$ 9,070,975	\$ 5,582,255	
Working capital (deficit)	(17,063,539)	(21,877,366)	(25,087,988)	
Total assets	11,603,707	35,008,621	31,322,869	
Debt obligations, current and long-term	15,168,532	21,961,828	15,488,800	
Redeemable preferred stock, common stock and noncontrolling interests	24,704,011	27,321,311	16,366,212	
Total stockholders' equity (deficit)	(45,151,218)	(54,873,803)	(30,914,816)	

MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

You should read the following discussion and analysis of our financial condition and results of operations together with our consolidated financial statements and related notes thereto included elsewhere in this prospectus. Some of the information contained in this discussion and analysis or set forth elsewhere in this prospectus, including information with respect to our plans and strategy for our business and related financing, includes forward-looking statements that involve risks and uncertainties. As a result of many factors, including those factors set forth in the "Risk Factors" section of this prospectus, our actual results could differ materially from the results described in or implied by the forward-looking statements contained in the following discussion and analysis.

Overview

We are a clinical-stage biopharmaceutical company focused on identifying, developing, manufacturing and commercializing complex biosimilar therapeutics. Our current focus is on technically challenging and commercially attractive monoclonal antibodies, or mAbs, in the disease areas of immunology and oncology. A mAb is a type of protein that is produced by a single clone of cells or cell line and made to bind to a specific substance in the body. Our strategy is to cost-effectively develop these biosimilars on an accelerated timeline, which is fundamental to our success and we believe positions us to be a leading biosimilar company. We have leveraged our team's biopharmaceutical expertise to establish fully integrated in-house development and manufacturing capabilities, which we refer to as our BioSymphony Platform. We believe this platform addresses the numerous complex technical and regulatory challenges in developing and commercializing mAb biosimilars and was designed to provide significant pricing flexibility. Since inception, we have advanced two product candidates into clinical trials: ONS-3010, a Phase 3-ready biosimilar to adalimumab (Humira[®]), and ONS-1045, a Phase 3-ready biosimilar to bevacizumab (Avastin[®]). Additionally, we have identified multiple other biosimilar product candidates, including six that are in pre-clinical development, one of which is expected to enter clinical trials in 2016.

Through December 31, 2015, we have funded substantially all of our operations through the sale and issuance of approximately \$103.5 million of our common stock, preferred stock and debt. Through December 31, 2015, we have also received \$23.5 million pursuant to our collaboration and licensing agreements.

As described in their audit report, our auditors have included an explanatory paragraph that states that we have incurred recurring losses and negative cash flows from operations since inception and have an accumulated deficit at September 30, 2015 of \$94.1 million and \$14.2 million of indebtedness that is due on demand. These matters raise substantial doubt about our ability to continue as a going concern. Our consolidated financial statements do not include any adjustments that might be necessary if we are unable to continue as a going concern.

We will need to raise substantial additional financing in the future to fund our operations. We believe our existing cash together with the proceeds from this offering, will provide adequate financial resources to fund our planned operations through at least the next 12 months. We will need to raise substantial additional capital in order to commercialize ONS-3010, commence any Phase 3 clinical trials of ONS-1045 and continue to develop our other pipeline candidates. We plan to finance our future operations with a combination of proceeds from the issuance of equity securities, the issuance of additional debt, potential collaborations and revenues from potential future product sales, if any. There are no assurances that we will be successful in obtaining an adequate level of financing for the development and commercialization of ONS-3010, ONS-1045 or any other current or future biosimilar product candidates. If we are unable to secure adequate additional funding, our business, operating results, financial condition and cash flows may be materially and adversely affected

We do not have any products approved for sale and we have only generated revenue from our collaboration agreements. We have incurred operating losses and negative operating cash flows since inception and there is no assurance that we will ever achieve profitable operations, and if achieved, that profitable operations will be sustained. Our net losses were \$13.7 million and \$47.4 million for the years ended September 30, 2014 and 2015, respectively, and \$16.9 million for the three months ended December 31, 2015. In addition, development activities, clinical and preclinical testing and commercialization of our product candidates will require significant additional financing.

Reincorporation in Delaware

In October 2015, we reincorporated in Delaware by merging with and into Oncobiologics, Inc., a newly formed Delaware corporation, with the Delaware corporation surviving the merger. As a result of the merger, each share of our issued and outstanding common stock converted into and became a share of common stock of the Delaware corporation on a 1-for-1 basis, each issued and outstanding share of our Series A redeemable preferred stock converted into 1,000 shares of common stock and approximately 1.4035 shares of Series A preferred stock of the Delaware corporation, and each issued and outstanding share of Series B redeemable preferred stock converted into 1,000 shares of common stock and approximately 1.2867 shares of Series A preferred stock of the Delaware corporation. Additionally, in October 2015, effective upon our reincorporation and in connection with the dissolution of our business development subsidiary, Parilis Biopharmaceuticals, LLC, or Parilis, we issued 782,000 shares of common stock and 1,626 shares of Series A preferred stock to the holders of outstanding units in Parilis in exchange for all such units.

Collaboration and License Agreements

From time to time, we enter into collaboration and license agreements for the research and development, manufacture and/or commercialization of our biosimilar products and/or biosimilar product candidates. These agreements generally provide for non-refundable upfront license fees, development and commercial performance milestone payments, cost sharing, royalty payments and/or profit sharing. For additional information relating to our agreements, see "Business — Collaboration and License Agreements."

Selexis SA

In October 2011, we entered into a research license agreement with Selexis SA, or Selexis, pursuant to which we acquired a non-exclusive license to conduct research internally or in collaboration with third parties to develop recombinant proteins from mammalian cells created lines using the Selexis expression technology, or the Selexis Technology. The original research license had a three-year term, but on October 9, 2014, was extended for an additional three-year term through October 9, 2017. We may sublicense our rights with Selexis' prior written consent but are prohibited from making commercial use of the Selexis Technology or the resultant recombinant proteins comprising our biosimilars in humans, or from filing an investigational new drug, absent a commercial license agreement with Selexis covering the particular biosimilar product candidate developed under the research license. In connection with the entry into the research license, we paid Selexis an initial fee and agreed to make additional annual maintenance payments of the same amount for each of the three years that the research license agreement term was extended.

Selexis also granted us a non-transferrable option to obtain a perpetual, non-exclusive, worldwide commercial license under the Selexis Technology to manufacture, or have manufactured, a recombinant protein produced by a cell line developed using the Selexis Technology for clinical testing and commercial sale. We exercised this option in April 2013 and entered into three commercial license agreements with Selexis for our ONS-3010, ONS-1045 and ONS-1050 biosimilar candidates. We paid an upfront licensing fee to Selexis for each commercial license and also agreed to pay a fixed milestone payment for each licensed product. In addition, we are required to pay a single-digit royalty on a final product-by-final product and country-by-country basis, based on worldwide net sales of such final products by us or any of our affiliates or sublicensees during the royalty term. At any time during the term, we have the right to terminate our royalty payment obligation by providing written notice to Selexis and paying Selexis a royalty termination fee.

IPCA Laboratories Limited — Humira (ONS-3010), Avastin (ONS-1045) and Herceptin (ONS-1050)

In August 2013, we entered into a strategic license agreement with IPCA Laboratories Limited, or IPCA, under which we granted IPCA and its affiliates a license for the research, development, manufacture, use or sale of ONS-3010 and, by amendment in May 2014, ONS-1045. The license is exclusive with respect to India, Sri Lanka and Myanmar, and non-exclusive with respect to Nepal and Bhutan. Under the terms of the August 2013 agreement, we received an upfront payment from IPCA, and are eligible to earn additional regulatory milestone payments for each of ONS-3010 and ONS-1045. In addition, we are eligible to receive royalties at a low teens percentage rate of annual net sales of products by IPCA and its affiliates in the agreed territory.

In January 2014, we entered into an agreement with IPCA to assist IPCA in establishing its research, development and manufacturing capabilities for mAbs and biologics, including, in part, through collaborative development, manufacture and commercialization of ONS-1050 (our Herceptin biosimilar), in the agreed territory (as specified below). The agreed territory for ONS-1050 includes the Republics of India, Sri Lanka, Myanmar, Nepal and Bhutan, while the agreed territory for any product candidates developed independent of our involvement is global without geographical restriction. We also agreed to

assist IPCA with its research and development program. Under the terms of the January 2014 agreement, we are eligible to receive development payments and commercialization fees. In addition, we are eligible to receive royalties from IPCA at a mid-single digit rate on annual net sales of ONS-1050 commercialized by IPCA and its affiliates in the agreed territory.

As of December 31, 2015, we have received an aggregate of \$5.0 million of payments from IPCA under our various agreements.

Liomont — Humira (ONS-3010) and Avastin (ONS-1045)

In June 2014, we entered into a strategic license agreement with Laboratories Liomont, S.A. de C.V., or Liomont, under which we granted Liomont and its affiliates an exclusive, sublicenseable license in Mexico for the research, development, manufacture, use or sale of the ONS-3010 and ONS-1045 biosimilar product candidates in Mexico. Under the terms of the agreement, we received an upfront payment from Liomont, and we are eligible to earn milestone payments for each of ONS-3010 and ONS-1045. In addition, we are eligible to receive tiered royalties at upper single-digit to low teens percentage rates of annual net sales of products by Liomont and its affiliates in Mexico. As of December 31, 2015, we have received an aggregate of \$2.5 million of upfront and milestone payments from Liomont.

Huahai — Humira (ONS-3010) and Avastin (ONS-1045)

In May 2013, we entered into a series of agreements with Zhejiang Huahai Pharmaceutical Co., Ltd., or Huahai, to form an alliance for the purpose of developing and obtaining regulatory approval for, and commercial launch and marketing of licensed products in an agreed territory, as described below. The agreements include a strategic alliance agreement, which sets out the governance framework for the relationship, along with a joint participation agreement regarding joint development and commercialization of ONS-3010, and a co-development and license agreement for each of ONS-3010 and ONS-1045. As of December 31, 2015, we have received an aggregate of \$16.0 million of upfront and milestone payments from Huahai.

As contemplated by the strategic alliance agreement, we entered into a joint participation agreement with Huahai where we agreed to co-fund the development and share the value ownership interest of ONS-3010 in the United States, Canada, European Union, Japan, Australia and New Zealand. Under the agreement as amended, we are responsible for completing a defined "Phase-3 Ready Package" at our expense, for which the portion of the funds received from Huahai to date under this joint participation agreement was used.

In December 2014, we received an option to reacquire all rights to ONS-3010 from Huahai, which would have terminated the joint participation agreement. We had to exercise the option prior to December 23, 2015 and pay Huahai a total of \$28.0 million, consisting of an \$11.0 million initial payment due within seven days of exercise, and four additional installment payments of \$4.25 million payable over the course of the following year. We did not make the \$11.0 million initial payment within the time frame required.

In the event Huahai funds its proportionate share of development costs incurred after completion of the "Phase-3 Ready Packages," Huahai would be entitled to retain its 51% value ownership, with us entitled to retain our 49% value ownership, of ONS-3010 in the agreed territories. Similarly, revenues from commercialization of ONS-3010 in the agreed countries (including major markets such as the United States and the EU, among others), would also be shared based on such proportional ownership interests. In the event that Huahai does not fund its proportionate share of such development costs, the joint participation agreement provides for a proportionate adjustment to our respective value ownership interests based on our respective investments in such development costs, which would increase our value ownership interest in ONS-3010. Under the joint participation agreement, we could also be required to form a joint venture to further develop and commercialize ONS-3010 with Huahai in the agreed countries, if so requested by Huahai.

In conjunction with the strategic alliance agreement, we also entered into a co-development and license agreement with Huahai, under which we granted Huahai and its affiliates an exclusive license, in the territory (as specified below) for the research, development, manufacture, use or sale of ONS-3010 or ONS-1045 in China, including, the People's Republic of China, Hong Kong, Macau and Taiwan. We will each bear our respective costs under the development plans. Huahai agreed to carry out all clinical, manufacturing and regulatory requirements necessary for approval of the products in the agreed territory. Under the terms of the agreement, we received an upfront payment from Huahai for ONS-3010, and have received regulatory milestone payments for each of ONS-3010 and ONS-1045.

Components of Our Results of Operations

Collaboration Revenue

To date, we have derived revenue only from activities pursuant to our collaboration and licensing agreements. We have not generated any revenue from commercial product sales. For the foreseeable future, we expect all of our revenue, if any, will

be generated from our collaboration and licensing agreements. If any of our biosimilar product candidates currently under development are approved for commercial sale, we may generate revenue from product sales, or alternatively, we may choose to select a collaborator to commercialize our product candidates.

The following table sets forth a summary of revenue recognized from our collaboration and licensing agreements for the years ended September 30, 2014 and 2015 and for the three months ended December 31, 2014 and 2015:

	Year ended S	Year ended September 30,		ed December 31,
	2014	2015	2014	2015
IPCA Collaboration	\$1,439,472	\$1,702,377	\$ 586,078	\$ 105,433
Liomont Collaboration	34,091	341,280	54,582	595,566
Huahai Collaboration	7,576,979	3,175,580	2,293,895	293,895
	\$9,050,542	\$5,219,237	\$ 2,934,555	\$ 994,894

The following table summarizes the milestone payments and recognition of deferred revenues from our collaboration and licensing agreements during the years ended September 30, 2014 and 2015 and for the three months ended December 31, 2014 and 2015:

	Year ended September 30,		Three months ended December 31	
	2014	2015	2014	2015
Milestone payments	\$7,000,000	\$2,500,000	\$ 2,500,000	\$ 500,000
Recognition of deferred revenues	1,300,542	1,919,237	434,555	494,894
Research and development payments	750,000	800,000	_	_
	\$9,050,542	\$5,219,237	\$ 2,934,555	\$ 994,894

Each of our collaboration and licensing agreements is considered to be a multiple-element arrangement for accounting purposes. We determined that there are two deliverables; specifically, the license to our biosimilar product candidate and the related research and development services that we are obligated to provide. We concluded that these deliverables should be accounted for as a single unit of accounting. We determined that the upfront license payments received should be deferred and recognized as revenue on a straight-line basis through the estimated period of completion of our obligations under the agreement. We recognize revenues from the achievement of milestones if the milestone event is substantive and achievability of the milestone was not reasonably assured at the inception of the agreement.

Research and Development Expenses

Research and development expense consists of expenses incurred in connection with the discovery and development of our biosimilar product candidates. We expense research and development costs as incurred. These expenses include:

- expenses incurred under agreements with contract research organizations, or CROs, as well as investigative sites and consultants that conduct our preclinical studies and clinical trials;
- manufacturing scale-up expenses and the cost of acquiring and manufacturing preclinical and clinical trial materials and commercial materials, including manufacturing validation batches;
- outsourced professional scientific development services;
- employee-related expenses, which include salaries, benefits and stock-based compensation;
- payments made under a third-party assignment agreement, under which we acquired intellectual property;
- expenses relating to regulatory activities, including filing fees paid to regulatory agencies;
- laboratory materials and supplies used to support our research activities; and
- allocated expenses for utilities and other facility-related costs.

The successful development of our biosimilar product candidates is highly uncertain. At this time, we cannot reasonably estimate or know the nature, timing and costs of the efforts that will be necessary to complete the remainder of the development of, or when, if ever, material net cash inflows may commence from any of our other biosimilar product candidates. This uncertainty is due to the numerous risks and uncertainties associated with the duration and cost of clinical trials, which vary significantly over the life of a project as a result of many factors, including:

- the number of clinical sites included in the trials;
- the length of time required to enroll suitable patients;
- the number of patients that ultimately participate in the trials;
- the number of doses patients receive;
- the duration of patient follow-up;
- the results of our clinical trials:
- the establishment of commercial manufacturing capabilities;
- the receipt of marketing approvals; and
- the commercialization of product candidates.

Our expenditures are subject to additional uncertainties, including the terms and timing of regulatory approvals. We may never succeed in achieving regulatory approval for any of our biosimilar product candidates. We may obtain unexpected results from our clinical trials. We may elect to discontinue, delay or modify clinical trials of some biosimilar product candidates or focus on others. A change in the outcome of any of these variables with respect to the development of a biosimilar product candidate could mean a significant change in the costs and timing associated with the development of that biosimilar product candidate. For example, if the U.S. Food and Drug Administration, or FDA, or other regulatory authorities were to require us to conduct clinical trials beyond those that we currently anticipate, or if we experience significant delays in enrollment in any of our clinical trials, we could be required to expend significant additional financial resources and time on the completion of clinical development. Biosimilar product commercialization will take several years and millions of dollars in development costs.

Research and development activities are central to our business model. Biosimilar product candidates in later stages of clinical development generally have higher development costs than those in earlier stages of clinical development, primarily due to the increased size and duration of later-stage clinical trials. We expect our research and development expenses to increase significantly over the next several years as we increase personnel costs, including stock-based compensation, conduct clinical trials and prepare regulatory fillings for our biosimilar product candidates.

General and Administrative Expenses

General and administrative expenses consist principally of salaries and related costs for personnel in executive, administrative, finance and legal functions, including stock-based compensation, travel expenses and recruiting expenses. Other general and administrative expenses include facility related costs, patent filing and prosecution costs and professional fees for business development, legal, auditing and tax services and insurance costs.

We anticipate that our general and administrative expenses will increase as a result of increased payroll, expanded infrastructure and higher consulting, legal and tax-related services associated with maintaining compliance with stock exchange listing and Securities and Exchange Commission, or SEC, requirements, accounting and investor relations costs, and director and officer insurance premiums associated with being a public company. We also anticipate that our general and administrative expenses will increase in support of our clinical trials as we expand and progress our development programs. Additionally, if and when we believe a regulatory approval of a biosimilar product candidate appears likely, we anticipate an increase in payroll and expense as a result of our preparation for commercial operations, particularly as it relates to the sales and marketing of our biosimilar product.

Interest Expense

Interest expense consists of cash paid and non-cash interest expense related to our bank loans, notes with current and former stockholders, equipment loans and capital lease obligations.

Income Taxes

During the years ended September 30, 2014 and 2015, we sold New Jersey state net operating losses, or NOLs, and research credits of \$9.9 million and NOLs of \$4.8 million, respectively, resulting in the recognition of income tax benefits of \$0.8 million and \$0.7 million, respectively. In addition during the years ended September 30, 2014 and 2015, and for the three months ended December 31, 2014 and 2015, we incurred \$1.3 million, \$0.5 million, \$0.4 million and \$0.1 million, respectively, of foreign withholding taxes in connection with our collaboration and licensing agreements.

Since inception, we have not recorded any U.S. federal or state income tax benefits (excluding the sale of New Jersey state NOLs and research credits) for the net losses we have incurred in each year or on our earned research and development tax credits, due to our uncertainty of realizing a benefit from those items. As of September 30, 2015, we had federal and state NOL carryforwards of \$5.9 million and \$36.9 million, respectively, that will begin to expire in 2030 and 2032, respectively. As of September 30, 2015, we had federal foreign tax credit carryforwards of \$2.6 million available to reduce future tax liabilities, which begin to expire at various dates starting in 2023. As of September 30, 2015, we also had federal and state research and development tax credit carryforwards of \$4.2 million and \$1.7 million, respectively, which begin to expire in 2021.

In general, under Section 382 of the Internal Revenue Code of 1986, as amended, or the Code, a corporation that undergoes an "ownership change" is subject to limitations on its ability to utilize its NOLs to offset future taxable income. We have not completed a study to assess whether an ownership change has occurred in the past. Our existing NOLs may be subject to limitations arising from previous ownership changes, and if we undergo an ownership change in connection with or after this offering, our ability to utilize NOLs could be further limited by Section 382 of the Code. Future changes in our stock ownership, some of which are outside of our control, could result in an ownership change under Section 382 of the Code. Our NOLs are also subject to international regulations, which could restrict our ability to utilize our NOLs. Furthermore, our ability to utilize NOLs of companies that we may acquire in the future may be subject to limitations. There is also a risk that due to regulatory changes, such as suspensions on the use of NOLs, or other unforeseen reasons, our existing NOLs could expire or otherwise be unavailable to offset future income tax liabilities.

Results of Operations

Comparison of Three Months Ended December 31, 2014 and 2015

The following table summarizes our results of operations for the three months ended December 31, 2014 and 2015:

	Three Months En	Three Months Ended December 31,		
	2014	2015	Change	
	(Unai	udited)		
Collaboration revenues	\$ 2,934,555	\$ 994,894	\$ (1,939,661)	
Operating expenses:				
Research and development	5,840,030	12,733,976	6,893,946	
General and administrative	1,237,839	4,674,155	3,436,316	
	7,077,869	17,408,131	10,330,262	
Loss from operations	(4,143,314)	(16,413,237)	(12,269,923)	
Interest expense	357,580	398,975	41,395	
Loss before income taxes	(4,500,894)	(16,812,212)	(12,311,318)	
Income tax expense	406,363	52,000	(354,363)	
Net loss	\$ (4,907,257)	\$ (16,864,212)	\$(11,956,955)	

Collaboration Revenues

Our collaboration revenues decreased \$1.9 million, to \$1.0 million, for the three months ended December 31, 2015, as compared to \$2.9 million for the three months ended December 31, 2014. The change is primarily attributable to the \$2.0 million decrease in milestone payments offset by a \$60,000 increase in the amortization of deferred revenue.

Research and Development Expenses

We do not currently utilize a formal time allocation system to capture expenses on a project-by-project basis because we are organized and record expense by functional department and our employees may allocate time to more than one development project. Accordingly, we do not allocate expenses to individual projects or product candidates, although we do allocate some portion of our research and development expenses by functional area and by compound, as shown below.

The following table summarizes our research and development expenses by functional area for the three months ended December 31, 2014 and 2015 and for the period from January 5, 2010 (inception) through December 31, 2015:

	Three months ended December 31,		Period from January 5, 2010 (inception) through	
	2014	2015	December 31, 2015	
	(Una			
Preclinical and clinical development	\$3,524,528	\$ 7,007,033	\$ 40,174,156	
Compensation and related benefits	2,193,204	3,815,357	27,366,937	
Stock-based compensation	84,275	1,356,408	7,907,386	
Regulatory filings and other	38,023	555,178	2,765,050	
Total research and development expenses	\$5,840,030	\$12,733,976	\$ 78,213,529	

The following table summarizes our research and development expenses by compound for the three months ended December 31, 2014 and 2015 and for the period from January 5, 2010 (inception) through December 31, 2015:

	Three months ended December 31, 2014 2015		Period from January 5, 2010 (inception) through December 31, 2015	
	(Una	udited)		
ONS-3010	\$1,547,912	\$ 4,208,306	\$ 19,405,507	
ONS-1045	1,718,730	2,740,735	17,652,009	
Other research and development	295,909	613,169	5,881,689	
Personnel related and stock-based compensation	2,277,479	5,171,766	35,274,324	
Total research and development expenses	\$5,840,030	\$12,733,976	\$ 78,213,529	

Research and development expenses were \$5.8 million for the year three months ended December 31, 2014, compared to \$12.7 million for the three months ended December 31, 2015. Our preclinical and clinical development costs increased \$3.5 million, which was primarily attributable to the timing of our Phase 1 clinical trials of ONS-3010 and ONS-1045, preparation for our planned Phase 3 clinical trials of ONS-3010 and ONS-1045, and related internal manufacturing and testing costs, respectively. We had an increase in compensation costs of \$1.6 million due to increased headcount as we launched our in-house manufacturing facility in 2015. We also had a \$0.5 million increase in research and development expense primarily due to government filing fees for our product candidates. In addition, we had an increase in stock-based compensation of \$1.3 million upon the re-measurement of our Performance Stock Units, or PSUs.

General and Administrative Expenses

General and administrative expenses were \$1.2 million for the three months ended December 31, 2014, compared to \$4.7 million for the three months ended December 31, 2015. The increase of \$3.5 million was primarily attributable to an increase of \$1.6 million in professional service fees as we initiated our compliance efforts in anticipation of becoming a publicly traded company; a \$0.4 million increase in compensation expenses as we increased our headcount; a \$0.2 million increase in our facility costs and related rent as we expanded the space in which we lease our offices; and a \$1.1 million increase in stock-based compensation upon the re-measurement of our PSUs.

Interest Expense

Interest expense remained consistent at \$0.4 million during each of the three months ended December 31, 2014 and 2015 primarily due to the increase in capital lease obligations offset by reductions in stockholder notes and other debt obligations.

Comparison of Years Ended September 30, 2014 and 2015

The following table summarizes our results of operations for the years ended September 30, 2014 and 2015:

	Year Ended S		
	2014	2015	Change
Collaboration revenues	\$ 9,050,542	\$ 5,219,237	\$ (3,831,305)
Operating expenses:			
Research and development	14,124,631	38,876,040	24,751,409
General and administrative	7,318,314	12,905,823	5,587,509
	21,442,945	51,781,863	30,338,918
Loss from operations	(12,392,403)	(46,562,626)	(34,170,223)
Interest expense	901,052	2,297,339	1,396,287
Loss before income taxes	(13,293,455)	(48,859,965)	(35,566,510)
Income tax expense (benefit)	439,018	(190,111)	(629,129)
Net loss	\$ (13,732,473)	\$ (48,669,854)	\$ (34,937,381)

Collaboration Revenues

Our collaboration revenues decreased \$3.8 million, to \$5.2 million, for the year ended September 30, 2015, as compared to the year ended September 30, 2014. The change is primarily attributable to the \$4.5 million decrease in milestone payments offset by a \$0.6 million increase in the amortization of deferred revenue.

Research and Development Expenses

The following table summarizes our research and development expenses by functional area for the years ended September 30, 2014 and 2015 and for the period from January 5, 2010 (date of inception) through September 30, 2015:

	Year ended September 30,		Period from January 5, 2010 (inception) through
	2014	2014 2015	
Preclinical and clinical development	\$ 6,715,346	\$ 21,714,405	\$ 33,167,123
Compensation and related benefits	6,424,884	10,202,065	23,477,173
Stock-based compensation	671,745	5,817,830	6,625,385
Regulatory filings and other	312,656	1,141,740	2,209,872
Total research and development expenses	\$ 14,124,631	\$ 38,876,040	\$ 65,479,553

The following table summarizes our research and development expenses by compound for the years ended September 30, 2014 and 2015 and for the period from January 5, 2010 (date of inception) through September 30, 2015:

	Year ended September 30,		Period from January 5, 2010 (inception) through
	2014	2015	September 30, 2015
ONS-3010	\$ 4,641,138	\$ 6,942,002	\$ 15,197,201
ONS-1045	1,819,446	12,763,886	14,911,274
Other research and development	567,418	3,150,257	5,268,520
Personnel related and stock-based compensation	7,096,629	16,019,895	30,102,558
Total research and development expenses	\$14,124,631	\$ 38,876,040	\$ 65,479,553

Research and development expenses were \$14.1 million for the year ended September 30, 2014, compared to \$38.9 million for the year ended September 30, 2015. Our preclinical and clinical development costs increased \$15.0 million, which was primarily attributable to the timing of our Phase 1 clinical trials of ONS-3010 and ONS-1045, our Phase 3 clinical trials of ONS-3010, and related internal manufacturing and testing costs, respectively. We had an increase in

compensation costs of \$3.8 million due to increased headcount as we launched our in-house manufacturing facility in 2015. We also had a \$0.8 million increase in research and development expense primarily due to government filing fees for our product candidates. In addition we had an increase in stock-based compensation of \$5.1 million upon the remeasurement of our PSUs.

General and Administrative Expenses

General and administrative expenses were \$7.3 million for the year ended September 30, 2014, compared to \$12.9 million for the year ended September 30, 2015. The increase of \$5.6 million was primarily attributable to an increase of \$2.1 million in professional service fees as we initiated our compliance efforts in anticipation of becoming a publicly traded company; a \$1.1 million increase in compensation expenses as we increased our headcount; a \$0.1 million increase in our facility costs and related rent as we expanded the space in which we lease our offices; and a \$2.1 million increase in stock-based compensation upon the re-measurement of our PSUs.

Interest Expense

Interest expense was \$0.9 million for the year ended September 30, 2014, compared to \$2.3 million for the year ended September 30, 2015. The increase of \$1.4 million was primarily attributable to the \$10.9 million in additional borrowings during 2015.

Liquidity and Capital Resources

We have not generated any revenue from biosimilar product sales. Since inception, we have incurred net losses and negative cash flows from our operations. Through December 31, 2015, we have funded substantially all of our operations through the sale and issuance of \$103.5 million net proceeds of our common stock, and sales of our preferred stock and borrowings under debt facilities. Through December 31, 2015, we have also received an aggregate of \$23.5 million pursuant to our collaboration and licensing agreements. As of December 31, 2015, we had an accumulated deficit of \$110.9 million and had a cash balance of \$5.6 million. In addition, we had \$10.1 million of indebtedness that is due on demand

As described in their audit report, our auditors have included an explanatory paragraph that states that we have incurred recurring losses and negative cash flows from operations since inception and have an accumulated deficit at September 30, 2015 of \$94.1 million and \$14.2 million of indebtedness that is due on demand. These matters raise substantial doubt about our ability to continue as a going concern. Our consolidated financial statements do not include any adjustments related to the recoverability and classification of recorded asset amounts or the amounts and classification of liabilities that might result from the outcome of this uncertainty. We anticipate incurring additional losses until such time, if ever, that we can generate significant sales of our product candidates currently in development. We will need substantial additional financing to fund our operations and to commercially develop our product candidates. Management is currently evaluating different strategies to obtain the required funding for future operations. These strategies may include, but are not limited to: private placements of equity and/or debt, payments from potential strategic research and development, licensing and/or marketing arrangements with pharmaceutical companies, and public offerings of equity and/or debt securities. There can be no assurance that these future funding efforts will be successful.

Our future operations are highly dependent on a combination of factors, including (i) the timely and successful completion of additional financing discussed above, (ii) our ability to complete revenue-generating partnerships with pharmaceutical companies, (iii) the success of our research and development, (iv) the development of competitive therapies by other biotechnology and pharmaceutical companies, and, ultimately, (v) regulatory approval and market acceptance of our proposed future products.

Cash Flows

The following table summarizes our cash flows for each of the periods presented:

	Year Ended September 30,		Three months ended December 31,		
	2014	2015	2014	2015	
			(Una	udited)	
Net cash used in operating activities	\$ (7,020,469)	\$(27,476,200)	\$ (3,666,423)	\$ (12,012,281)	
Net cash used in investing activities	(2,366,772)	(8,804,244)	(527,877)	(364,242)	
Net cash provided by financing activities	11,474,146	43,002,106	3,670,527	8,887,803	
Net increase (decrease) in cash	\$ 2,086,905	\$ 6,721,662	\$ (523,773)	\$ (3,488,720)	

Operating Activities

During the three months ended December 31, 2014, we used \$3.7 million in operating activities, primarily resulting from our net loss of \$4.9 million that was offset by \$0.4 million of noncash items and \$0.8 million in net cash provided by changes in our operating assets and liabilities. The noncash items were primarily comprised of depreciation and amortization of our fixed assets, stock-based compensation, and the re-measurement of our PSU awards. The change in our operating assets and liabilities were primarily due to increases in deferred revenue upon receipt of upfront payments under our collaboration and licensing arrangements, and increases in accounts payable and accrued expenses related to our Phase 1 clinical trials and the timing of our vendor payments. These inflows were offset primarily from an increase in accounts receivable from our collaboration agreements.

During the three months ended December 31, 2015, we used \$12.0 million in operating activities, primarily resulting from our net loss of \$16.9 million that was offset by \$3.1 million of noncash items. The change in our operating assets and liabilities were primarily due to increases in accounts payable and accrued expenses related to our Phase 3 clinical trials and the timing of our vendor payments. These inflows were offset by increases in prepaid expenses related to the timing in which we recognize research and development expenses, and the amortization of deferred revenues.

During the year ended September 30, 2014, we used \$7.0 million of cash in operating activities, primarily resulting from our net loss of \$13.7 million that was offset by \$4.8 million of noncash items and \$1.9 million in net cash provided by changes in our operating assets and liabilities. The noncash items were primarily comprised of depreciation and amortization of our fixed assets, stock-based compensation, and the re-measurement of our PSU awards. The change in our operating assets and liabilities were primarily due to receipt of upfront payments under our collaboration and licensing agreements and prepayments to certain vendors. We also had increases in accrued expenses related to accrued compensation, research and development, and professional fees and our income taxes payable in connection with foreign tax withholdings.

During the year ended September 30, 2015, we used \$27.5 million of cash in operating activities, primarily resulting from our net loss of \$48.7 million that was offset by \$13.0 million of noncash items and \$8.2 million in net cash provided by changes in our operating assets and liabilities. The noncash items were primarily comprised of depreciation and amortization of our fixed assets and the re-measurement of our PSU awards. The change in our operating assets and liabilities were primarily due to an \$8.8 million increase in accounts payable and accrued expenses, which increased due to the timing in which we paid our research and development vendors. We also received \$2.5 million in upfront fees and milestone payments under our collaboration and licensing agreements. These increases were offset by the prepayments of certain expenses and other assets.

Investing Activities.

During the three months ended December 31, 2014 and 2015 and the years ended September 30, 2014 and 2015, we used cash of \$0.5 million, \$0.4 million, \$2.4 million and \$8.8 million, respectively, in investing activities for the purchase of property and equipment. The increase in purchases of property and equipment during the year ended September 30, 2015 was primarily attributable to the launching of our manufacturing facility, which resulted in significant increases in our laboratory equipment and leasehold improvements.

Financing Activities.

During the three months ended December 31, 2014, net cash provided by financing activities was \$3.7 million, primarily attributable to \$4.0 million in net proceeds from the issuance of stockholder notes offset by \$0.3 million in debt payments.

During the three months ended December 31, 2015, net cash provided by financing activities was \$8.9 million, primarily attributable to \$11.3 million in net proceeds from the sale of our common stock and \$4.3 million in proceeds from the collection of subscriptions receivable. We also received \$0.2 million from Sonnet in connection with their note receivable. These inflows were offset by \$6.5 million in debt payments and \$0.4 million upon the deconsolidation of Sonnet.

During the year ended September 30, 2014, net cash provided by financing activities was \$11.5 million, primarily attributable to the proceeds received from the issuance of our redeemable common stock, Series B redeemable preferred stock, common stock and debt of \$10.9 million, \$0.3 million, \$0.1 million and \$8.5 million, respectively. These cash inflows were offset by debt payments and the June 2014 buyback of our Series A redeemable preferred stock of \$4.1 million and \$4.1 million, respectively.

During the year ended September 30, 2015, net cash provided by financing activities was \$43.0 million, primarily attributable to the proceeds received from the issuance of our common stock and debt of \$41.2 million, \$10.9 million, respectively. These cash inflows were offset by debt payments and the partial repurchase of outstanding shares of Series A redeemable preferred stock of \$9.3 million and \$0.2 million, respectively.

Funding Requirements

We plan to focus in the near term on the development, regulatory approval and potential commercialization of our biosimilar product candidates. We anticipate we will incur net losses and negative cash flow from operations for the next several years as we complete clinical development and continue research and development. In addition, we plan to continue to invest in discovery efforts to explore additional biosimilar product candidates, potentially build commercial capabilities and expand our corporate infrastructure. We may not be able to complete the development and initiate commercialization of these programs if, among other things, our clinical trials are not successful or if the FDA does not approve our biosimilar products arising out of our current clinical trials when we expect, or at all.

Our primary uses of capital are, and we expect will continue to be, compensation and related expenses, clinical costs, external research and development services, laboratory and related supplies, legal and other regulatory expenses, and administrative and overhead costs. Our future funding requirements will be heavily determined by the resources needed to support development of our biosimilar product candidates.

Following this offering, we will be a publicly traded company and will incur significant legal, accounting and other expenses that we were not required to incur as a private company. In addition, the Sarbanes-Oxley Act of 2002, or the Sarbanes-Oxley Act, as well as rules adopted by the SEC and The NASDAQ Stock Market, requires public companies to implement specified corporate governance practices that are currently inapplicable to us as a private company. We expect these rules and regulations will increase our legal and financial compliance costs and will make some activities more time-consuming and costly.

We believe our existing cash together with the proceeds from this offering, will provide adequate financial resources to fund our planned operations through at least the next 12 months. We have based this estimate on assumptions that may prove to be wrong, and we could utilize our available capital resources sooner than we expect. We will need to raise substantial additional capital in order to receive approval for and commercialize ONS-3010, complete any Phase 3 clinical trials of ONS-1045 and commence Phase 3 clinical trials for any of our other pipeline candidates. We plan to finance our future operations with a combination of proceeds from the issuance of equity securities, the issuance of additional debt, potential collaborations and revenues from potential future product sales, if any. If we raise additional capital through the sale of equity or convertible debt securities, your ownership will be diluted, and the terms of these securities may include liquidation or other preferences that adversely affect your rights as a holder of our common stock. There are no assurances that we will be successful in obtaining an adequate level of financing for the development and commercialization of ONS-3010, ONS-1045 or any other current or future biosimilar product candidates. If we are unable to secure adequate additional funding, our business, operating results, financial condition and cash flows may be materially and adversely affected.

Because of the numerous risks and uncertainties associated with research, development and commercialization of biosimilar products, we are unable to estimate the exact amount of our working capital requirements. Our future funding requirements will depend on many factors, including:

- the number and characteristics of the biosimilar product candidates we pursue;
- the scope, progress, results and costs of researching and developing our biosimilar product candidates, and conducting preclinical studies and clinical trials;
- the timing of, and the costs involved in, obtaining regulatory approvals for our biosimilar product candidates;

- the cost of manufacturing our biosimilar product candidates and any drugs we successfully commercialize;
- our ability to establish and maintain strategic collaborations, licensing or other arrangements and the financial terms of such agreements:
- the costs involved in preparing, filing, prosecuting, maintaining, defending and enforcing patent claims, including litigation costs and the outcome of such litigation; and
- the timing, receipt and amount of sales of, or milestone payments related to or royalties on, our current or future biosimilar product candidates, if any.

See "Risk Factors" for additional risks associated with our substantial capital requirements.

Contractual Obligations and Commitments

The following table summarizes our contractual obligations at September 30, 2015 and the effect such obligations are expected to have on our liquidity and cash flows in future periods:

	Payments Due by Period				
	Total	Less Than 1 Year	1 – 3 Years	3 – 5 Years	More Than 5 Years
Operating lease commitments ⁽¹⁾⁽⁵⁾	\$ 5,027,353	\$ 888,710	\$ 1,731,526	\$ 1,763,368	\$ 643,749
Debt obligations ⁽²⁾	19,953,048	14,956,842	3,355,273	1,032,926	608,007
Capital leases ⁽³⁾	2,082,222	862,849	1,219,373	_	_
Total ⁽⁴⁾	\$ 27,062,623	\$ 16,708,401	\$ 6,306,172	\$ 2,796,294	\$ 1,251,756

- Operating lease obligations reflect our obligation to make payments in connection with the lease for our office and manufacturing facility located in Cranbury, New Jersey.
- (2) Debt obligations reflect outstanding principal obligations due to investors on notes payable and institutions and financing organizations for non-lease related equipment.
- (3) Capital lease obligations reflect our outstanding principal payment obligations in connection with leased equipment used in our manufacturing facility.
- (4) This table does not include (a) any milestone payments that may become payable to third parties under license agreements as the timing and likelihood of such payments are not known with certainty, (b) any royalty payments to third parties as the amounts, timing and likelihood of such payments are not known, and (c) contracts that are entered into in the ordinary course of business that are not material in the aggregate in any period presented above.
- (5) We entered into an operating lease for a facility located in Cranbury, NJ with a ten year term. The anticipated commencement date is March 1, 2016. Not included in the table are the future minimum lease payments of \$7,247,800.

Under our license agreement with Selexis, we are obligated to pay milestone payments, as well as a royalty at a singledigit percentage of net sales of any covered product we successfully commercialize.

We also have employment agreements with certain employees, which require the funding of a specific level of payments if certain events, such as a change in control or termination without cause, occur.

In addition, in the course of normal business operations, we have agreements with contract service providers to assist in the performance of our research and development and manufacturing activities. Expenditures to CROs represent a significant cost in clinical development. We can elect to discontinue the work under these agreements at any time. We could also enter into additional collaborative research and licensing, contract research, manufacturing, and supplier agreements in the future, which may require upfront payments and even long-term commitments of cash.

Off-Balance Sheet Arrangements

We did not have during the periods presented, and we do not currently have, any off-balance sheet arrangements, as defined in the rules and regulations of the SEC.

Quantitative and Qualitative Disclosures about Market Risks

We are exposed to market risks in the ordinary course of our business. As of December 31, 2015, we had \$5.6 million of cash, and we had \$15.5 million of debt obligations. Our cash is deposited in accounts at two financial institutions, and amounts may exceed federally insured limits. We do not believe we are exposed to significant credit risk due to the financial strength of the depository institutions in which the cash is held. As a result, a change in market interest rates would not have a material impact on our financial position or results of operations.

Critical Accounting Policies and Significant Judgments and Estimates

Our consolidated financial statements are prepared in accordance with U.S. generally accepted accounting principles. The preparation of our consolidated financial statements and related disclosures requires us to make estimates and judgments that affect the reported amounts of assets and liabilities, disclosure of contingent assets and liabilities at the date of the consolidated financial statements, and the reported amounts of revenues and expenses during the reported period. We base our estimates on historical experience, known trends and events and various other factors that we believe to be reasonable under the circumstances, the results of which form the basis for making judgments about the carrying values of assets and liabilities that are not readily apparent from other sources. We evaluate our estimates and assumptions on an ongoing basis. Our actual results may differ from these estimates under different assumptions and conditions.

While our significant accounting policies are described in more detail in the notes to our audited consolidated financial statements appearing elsewhere in this prospectus, we believe that the following accounting policies are those most critical to the judgments and estimates used in the preparation of our consolidated financial statements.

Revenue Recognition

We generate revenue primarily through collaboration and licensing agreements that contain multiple deliverables, generally a license and research and development services. Revenue recognition for arrangements with multiple elements requires the determination of whether an arrangement involving multiple deliverables contains more than one unit of accounting. A delivered item within an arrangement is considered a separate unit of accounting only if both of the following criteria are met:

- the delivered item has value to the customer on a stand-alone basis; and
- if the arrangement includes a general right of return relative to the delivered item, delivery or performance of the undelivered item is considered probable and substantially in our control.

If both of the criteria above are not met, then separate accounting for the individual deliverables is not appropriate. Revenue recognition for arrangements with multiple deliverables constituting a single unit of accounting is recognized generally over the greater of the term of the arrangement or the expected period of performance, either on a straight-line basis or on a modified proportional performance method. We record amounts received prior to satisfying the revenue recognition criteria as deferred revenue on our balance sheet. We classify amounts expected to be recognized as revenue in the next twelve months following the balance sheet date as current liabilities.

Accrued Research and Development Expenses

As part of the process of preparing our consolidated financial statements, we are required to estimate our accrued research and development expenses. This process involves reviewing open contracts and purchase orders, communicating with our applicable personnel to identify services that have been performed on our behalf and estimating the level of service performed and the associated cost incurred for the service when we have not yet been invoiced or otherwise notified of actual costs. The majority of our service providers require advance payments; however, some invoice us in arrears for services performed, on a pre-determined schedule or when contractual milestones are met. We make estimates of our accrued expenses as of each balance sheet date in the consolidated financial statements based on facts and circumstances known to us at that time. We periodically confirm the accuracy of the estimates with the service providers and makes adjustments if necessary. Examples of estimated accrued research and development expenses include fees paid to:

- vendors in connection with preclinical development activities;
- the production of preclinical and clinical trial materials;
- CROs in connection with clinical trials; and
- investigative sites in connection with clinical trials

We base our expenses related to preclinical studies and clinical trials on our estimates of the services received and efforts expended pursuant to quotes and contracts with multiple research institutions and CROs that conduct and manage preclinical studies and clinical trials on our behalf. The financial terms of these agreements are subject to negotiation, vary from contract to contract and may result in uneven payment flows. There may be instances in which payments made to our vendors will exceed the level of services provided and result in a prepayment of the expense. Payments under some of these contracts depend on factors such as the successful enrollment of patients and the completion of clinical trial milestones. In accruing service fees, we estimate the time period over which services will be performed and the level of effort to be expended in each period. If the actual timing of the performance of services or the level of effort varies from the estimate, we adjust the accrual or prepaid accordingly. Although we do not expect our estimates to be materially different from

amounts actually incurred, our understanding of the status and timing of services performed relative to the actual status and timing of services performed may vary and may result in reporting amounts that are too high or too low in any particular period. To date, we have not made any material adjustments to our prior estimates of accrued research and development expenses.

Stock-Based Compensation and PSU Obligation

As of September 30, 2014 and 2015, our outstanding stock-based compensation awards were substantially comprised of PSUs, which were liability classified as the PSUs settled in cash and therefore were subject to remeasurement until the award is settled or extinguished.

In December 2015, we completed a tender-offer to holders of outstanding PSUs to amend the terms of such outstanding awards to provide for settlement in shares of our common stock or cash, at our discretion. As a result of this modification, the PSUs are equity classified as of December 31, 2015. Concurrent with the amendment, several PSU holders cancelled an aggregate of 1,500,000 PSUs in exchange for 1,350,000 restricted stock units, or RSUs. During the three months ended December 31, 2015, we issued an additional 2,328,425 RSUs.

Because the exercisability of the PSUs occurs upon a corporate valuation of \$400 million, the fair value of the PSUs are estimated using a Monte Carlo simulation model. The inputs used in preparing the Monte Carlo simulation model include (i) volatility of our common stock, (ii) risk free interest rate, (iii) base price of the PSUs, (iv) fair value of our common stock and enterprise value, and (v) derived service period.

The most significant input affecting the estimated fair value of the PSUs is the fair value of our common stock. As of September 30, 2015 and December 2015, the fair value of our common stock was \$7.475 and \$8.42 per share, respectively, and based on contemporaneous, arms-length transactions with new investors purchasing our common stock.

As of September 30, 2014, we were required to estimate the fair value of our common stock underlying our PSU awards. We have engaged an independent third-party valuation firm to assist management in estimating the fair value of our common stock. We estimated the fair value of our common stock using methodologies, approaches and assumptions consistent with the AICPA Practice Guide. In addition, management considered various objective and subjective factors, along with input from the independent third-party valuation firm, to estimate the fair value of our common stock. As of September 30, 2014, the estimated fair value of our common stock was \$2.21 per share.

We believe that the receipt of the results from our Phase 1 clinical trial of ONS-3010 in early 2015, and the continued advancement of our other biosimilar product candidate development programs were the main drivers behind the increase in our price per share from September 30, 2014 to September 30, 2015.

Using the above common stock fair values, the estimated fair value of the PSUs was \$1.00, \$6.44 and \$7.45 per PSU as of September 30, 2014 and 2015 and December 31, 2015, respectively. The increase in the fair value of the PSUs is driven by the increase in the fair value of our common stock and related increase in the enterprise value of our company. The grant-date fair value of the RSUs equals the fair value of our common stock of \$8.42 per share.

For the years ended September 30, 2014 and 2015 and for the three months ended December 31, 2014 and 2015, we had compensation related to our equity and liability awards as follows:

	Year ended September 30,		Three months ended December 31,	
	2014	2015	2014	2015
Research and development	\$ 671,745	\$ 5,817,830	\$ 84,275	\$ 1,356,408
General and administrative	3,286,735	5,360,028	61,399	1,133,626
	\$3,958,480	\$11,177,858	\$ 145,674	\$ 2,490,034

	Year ended September 30,		Three months ended December 31,	
	2014	2015	2014	2015
Equity-classified compensation	\$2,764,878	\$ 8,925	\$ 2,231	\$ 98,172
Liability-classified compensation	1,193,602	11,168,933	143,443	2,391,862
	\$3,958,480	\$11,177,858	\$ 145,674	\$ 2,490,034

Internal Controls and Procedures

We will be required, pursuant to Section 404(a) of the Sarbanes-Oxley Act, or Section 404, to furnish a report by management on, among other things, the effectiveness of our internal control over financial reporting for the year following

our first annual report required to be filed with the SEC. This assessment will need to include disclosure of any material weaknesses identified by management over our internal control over financial reporting. However, our independent registered public accounting firm will not be required to report on the effectiveness of our internal control over financial reporting pursuant to Section 404(b) until the later of the year following our first annual report required to be filed with the SEC, or the date we are no longer an "emerging growth company" if we take advantage of the exemptions contained in the Jumpstart Our Business Startups Act of 2012, or JOBS Act.

We have not initiated the costly and challenging process of compiling the system and processing documentation necessary to perform the evaluation needed to comply with Section 404. We may not be able to complete our evaluation, testing or any required remediation in a timely fashion. During the evaluation and testing process, if we identify one or more material weaknesses in our internal control over financial reporting, we will be unable to assert that our internal controls are designed and operating effectively, which could result in a loss of investor confidence in the accuracy and completeness of our financial reports. This could cause the price of our common stock to decline, and we may be subject to investigation or sanctions by the SEC.

JOBS Act Accounting Election

The JOBS Act, permits an "emerging growth company" such as us to take advantage of an extended transition period to comply with new or revised accounting standards applicable to public companies until those standards would otherwise apply to private companies. We have irrevocably elected to "opt out" of this provision and, as a result, we will comply with new or revised accounting standards when they are required to be adopted by public companies that are not emerging growth companies.

Recently Issued and Adopted Accounting Pronouncements

In April 2015, the Financial Accounting Standards Board, or FASB, issued Accounting Standards Updates, or ASU, 2015-03, *Interest — Imputation of Interest* (Subtopic 835-30). The update requires debt issuance costs related to a recognized debt liability to be presented in the balance sheet as a direct deduction from the debt liability rather than as an asset. The guidance is effective for fiscal years beginning after December 15, 2015. We early adopted this guidance for all periods presented.

In August 2014, the FASB issued ASU 2014-15, *Disclosure of Uncertainties about an Entity's Ability to Continue as a Going Concern.* The amendments in this update will explicitly require a company's management to assess an entity's ability to continue as a going concern, and to provide related footnote disclosures in certain circumstances. The new standard will be effective in the first annual period ending after December 15, 2016. Early application is permitted. We are currently evaluating the potential impact of the adoption of this standard, but we believe its adoption will have no impact on our consolidated results of operations, financial position or cash flows.

In May 2014, the FASB issued ASU, No. 2014-09, Revenue from Contracts with Customers. This guidance requires an entity to recognize revenue to depict the transfer of promised goods or services to customers in an amount that reflects the consideration to which the entity expects to be entitled in exchange for those goods or services. This guidance also requires an entity to disclose sufficient information to enable users of financial statements to understand the nature, amount, timing and uncertainty of revenue and cash flows arising from contracts with customers. Qualitative and quantitative information is required about:

Contracts with customers — including revenue and impairments recognized, disaggregation of revenue and information about contract balances and performance obligations (including the transaction price allocated to the remaining performance obligations).

Significant judgments and changes in judgments — determining the timing of satisfaction of performance obligations (over time or at a point in time), and determining the transaction price and amounts allocated to performance obligations.

Certain assets - assets recognized from the costs to obtain or fulfill a contract.

In July 2015, the FASB delayed the effective date of this guidance. As a result, this guidance will be effective for annual reporting periods beginning after December 15, 2017, including interim periods within that reporting period. Earlier application is permitted only as of annual reporting periods beginning after December 15, 2016, including interim reporting periods within that reporting period. We are currently evaluating the impact that this guidance will have on our consolidated results of operations, financial position and cash flows.

BUSINESS

Overview

We are a clinical-stage biopharmaceutical company focused on identifying, developing, manufacturing and commercializing complex biosimilar therapeutics. Our current focus is on technically challenging and commercially attractive monoclonal antibodies, or mAbs, in the disease areas of immunology and oncology. A mAb is a type of protein that is produced by a single clone of cells or cell line and made to bind to a specific substance in the body. Our strategy is to cost-effectively develop these biosimilars on an accelerated timeline, which is fundamental to our success and we believe positions us to be a leading biosimilar company. We have leveraged our team's biopharmaceutical expertise to establish fully integrated in-house development and manufacturing capabilities, which we refer to as our BioSymphony Platform. We believe this platform addresses the numerous complex technical and regulatory challenges in developing and commercializing mAb biosimilars and was designed to provide significant pricing flexibility. Since inception, we have advanced two product candidates into clinical trials: ONS-3010, a Phase 3-ready biosimilar to adalimumab (Humira®), and ONS-1045, a Phase 3-ready biosimilar to bevacizumab (Avastin®). Additionally, we have identified multiple other biosimilar product candidates, including six that are in active preclinical development, one of which is expected to enter clinical trials in 2016.

Escalating healthcare costs and healthcare reform have been major drivers for the advancement of the biosimilar market as payors continue to seek ways to reduce costs. By gaining the "highly similar" regulatory designation for an approved biologic, or a reference product, less-expensive biosimilars provide the opportunity to reduce treatment costs without sacrificing the quality of care. We believe the significant pricing flexibility provided by our BioSymphony Platform gives us an additional competitive advantage in potentially capturing market share. The loss of multiple reference product patent exclusivities in the coming years will create significant opportunities for the biosimilar industry. There are more than 30 reference products facing loss of patent exclusivity in one or more major markets through 2020. According to the SNS Report, mAbs are the largest segment of the biologic market, and worldwide sales of mAb biosimilars are expected to grow from approximately \$1.4 billion in 2015 to \$56.5 billion by 2030.

Our most advanced product candidate, ONS-3010, an adalimumab (Humira) biosimilar, targets the tumor necrosis factor alpha, or TNF α , which is a potent inflammation mediator. In the first quarter of 2015, ONS-3010 met its primary and secondary endpoints in a Phase 1 clinical trial. In addition, ONS-3010 demonstrated a rate of injection site reactions lower than that of Humira. We have initiated Phase 3 preparatory activities for ONS-3010 and expect to commence enrollment in 2016 upon receipt of the necessary regulatory authorizations. Our second product candidate, ONS-1045, a bevacizumab (Avastin) biosimilar, interferes with tumor growth by binding to vascular endothelial growth factor, or VEGF, a protein that stimulates the formation of new blood vessels. In October 2015, ONS-1045 met its primary and secondary endpoints in a Phase 1 clinical trial and we are preparing to commence enrollment for a Phase 3 clinical trial in 2016 upon receipt of the necessary regulatory authorizations.

In addition to our clinical candidates, we have six preclinical biosimilar product candidates in active development. Our most advanced preclinical product candidate, ONS-1050, a trastuzumab (Herceptin®) biosimilar, interferes with the human epidermal growth factor receptor 2, or HER2, a protein that stimulates cell proliferation, and when overexpressed, can cause certain cancers. ONS-4010 is a biosimilar to denosumab (Prolia®/Xgeva®), which is a fully human mAb with affinity and specificity for human RANKL (receptor activator of nuclear factor kappa-B ligand), and used for the treatment of osteoporosis, treatment-induced bone loss, bone metastases and giant cell tumor of the bone. We expect to commence Phase 1 clinical trials of ONS-1050 in 2016 and ONS-4010 in 2017, pending successful completion of comparative analytical and *in vitro* functional studies and receipt of necessary regulatory authorizations. In addition to these preclinical products, we plan to expand our pipeline of complex biosimilar product candidates as additional products approach the loss of their respective patent exclusivities.

We were founded by a team of industry veterans with decades of cumulative experience in biologics development and commercialization. Our leadership team has been instrumental in obtaining global regulatory approval for multiple complex biologics at leading multinational biopharmaceutical companies. In addition, our scientific team has specific experience in process development for complex biologics, protein manufacturing and analytical research and development, which are essential components for the development and manufacturing of complex biosimilars.

Our Strategy

Our goal is to utilize the BioSymphony Platform to identify, develop, manufacture and commercialize technically challenging and commercially attractive mAb biosimilars on an accelerated timeline in a cost-effective manner, initially in the disease areas of immunology and oncology. The key elements of our strategy include:

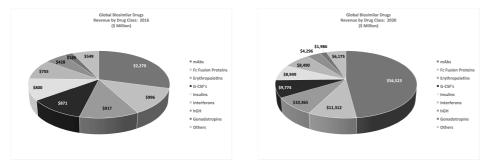
- Rapidly advancing our lead product candidates through late-stage clinical development and continuing to advance our preclinical pipeline. ONS-3010 and ONS-1045 are our most advanced clinical-stage product candidates. In the first quarter of 2015, ONS-3010 met its primary and secondary study endpoints in a Phase 1 clinical trial and we are preparing to commence enrollment in a confirmatory Phase 3 clinical trial in 2016. Our second product candidate, ONS-1045, met its primary and secondary study endpoints in a Phase 1 clinical trial in October 2015 and we expect to commence enrollment in a Phase 3 clinical trial of ONS-1045 in 2016. In addition to our advanced product candidates, we have identified six preclinical candidates. Our most advanced preclinical candidates, ONS-1050 and ONS-4010, are expected to commence Phase 1 clinical trials in 2016 and 2017, respectively, pending successful completion of comparative analytical and *in vitro* functional studies.
- Employing our expertise in product development to further expand our pipeline. We use a comprehensive approach to identify both near-term and future biosimilar targets that will further enhance and sustain our growth. In particular, we periodically evaluate approved complex biologics using multi-faceted selection criteria to identify reference products that we believe have potential for significant commercial opportunity.
- Cost effectively developing and manufacturing mAb biosimilars in an accelerated timeframe. Our internal capabilities allow us to employ a seamless transition between development and manufacturing, significantly reducing the time and cost of biosimilar development. We employ single-use technology that reduces costs of manufactured goods as compared to traditional manufacturing methods. These integrative features of our in-house capabilities permit us to initiate current good manufacturing practice, or cGMP, manufacturing within six weeks of completion of process development compared to traditional technology transfers that can take six months or more. We believe that these cost reductions will enable significant pricing flexibility, and will be fundamental to establishing long-term leadership in the biosimilar industry.
- Continuing to invest in and expand our in-house manufacturing capabilities. We believe our in-house manufacturing capabilities offer us competitive advantages in the biosimilar industry. Our current manufacturing facilities and infrastructure are sufficient to support the clinical development of our current pipeline and the commercialization of our two most advanced product candidates. Further, given the modular nature of our facilities and infrastructure, we believe we can rapidly and cost effectively expand our capacity to support our future manufacturing needs as we continue to expand our pipeline of product candidates.
- Maximizing the value of our pipeline by retaining development and commercialization rights in the United States and continuing to selectively out-license to ex-U.S. markets. The United States is the largest potential biosimilar market in the world. We currently intend to retain U.S.-rights to select product candidates while entering into additional strategic collaborations and partnerships with biotechnology and pharmaceutical companies in other regions. We believe this strategy will maximize the commercial value of our development programs.

The Biosimilar Industry

Background

Biologic products are produced by living cells and have been approved for the treatment of various disease states. Biosimilars are the approved "copies" of such reference products. According to a recent report from ESPICOM, an international health research and publishing company, the 2014 global biologics market represented approximately \$175 billion in sales, with virtually the entire market composed of branded biologic products. Additionally, more than 280 potential novel biologic therapies have been identified in the clinical pipeline, almost half of which are being evaluated for oncology indications. Multiple patents for many commercially successful biologic products are expected to expire during the next five years, providing an unprecedented opportunity for reductions in the cost of biologics through the introduction of biosimilars. There are over 30 biologic products that face loss of market exclusivity in at least one major market through 2020. According to published reports, global sales of biologics are estimated to reach more than \$200 billion by 2016. Biologic reference products with estimated global sales of \$100 billion will come off patent by 2020, and between 2009 and 2019, \$50.0 billion of the market value of biologics in the United States alone will lose patent protection. In 2016, there are expected to be more than 45 mAbs on the market worldwide, with revenues estimated to be in excess of \$40.0 billion. The overall biosimilar market is projected to reach global sales of approximately \$7.8 billion (\$2.3 billion of which

is associated with mAbs) during 2016, eventually accounting for approximately \$118 billion by 2030 (\$56.5 billion of which is associated with mAbs). As demonstrated in the following graphic, revenue from global sales of mAbs are expected to account for nearly 29% of the global sales in 2016, with European sales expected to account for 24%.

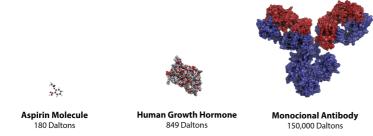


"The Biosimilar Drugs Market: Opportunities, Challenges, Strategies & Forecasts"; SNS Research Ltd.

A major driver for the advancement of the biosimilar market is the increasing and disproportionate amount of healthcare spending by governments and private payors on biologic therapeutics. The high costs for biologic treatments have led to an increasing financial burden on these payors. We believe this market dynamic has created opportunities for biosimilar developers in two key respects. First, the high costs of branded biologic products have created a growing demand for lower-cost biosimilars that can offer patients the same benefits as the reference products without sacrificing quality of care. Express Scripts projects U.S. healthcare savings of approximately \$250 billion between 2014 and 2024 if biosimilars for just 11 existing biologic drugs that are the most likely candidates for biosimilars were to come to market. Second, because biosimilars, especially complex biosimilars, are more costly and challenging to develop and manufacture than the generic versions of small-molecule drugs, we expect fewer companies will be able to successfully overcome the technical and regulatory complexities of biosimilar development.

Technical Challenges

Unlike small molecules, such as aspirin, or simple biologics, such as human growth hormone, mAbs are much larger and correspondingly complex. MAbs consist of four polypeptide chains of amino acids and perform a vast array of functions within living organisms. The specific amino acid sequence of each mAb dictates the folding of the protein into a specific three-dimensional structure that determines its activity. The following image compares a mAb to human growth hormone and aspirin. The complexity of a molecule increases with its size as defined by molecular weight, or number of atoms.



MAbs are derived from living cells and are produced through a series of complex processing steps that define their overall structure. Accordingly, they cannot be chemically synthesized nor fully characterized by a few analytical techniques. MAbs are also known to contain sugar side-chains, which are attached through a process referred to as glycosylation. These sugar chains confer structural stability, improve solubility, and can impact the function of the protein *in vivo*.

The complexities of mAbs require a specialized skill set for development. A biosimilar developer must have the necessary expertise in cell and molecular biology, protein biochemistry and biochemical engineering to overcome the following particular technical challenges:

- Reference Product: A protein therapeutic exists as a mixture of various molecular forms that together impart its mechanism of action. In order to understand the structure and function of the reference product, the biosimilar developer must conduct many analytical studies to reverse engineer the multiple quality attributes that govern the reference product's protein structure and function. Due to the inherent variability that results from cellular production techniques, many production lots of reference product must be analyzed to understand the batch to batch variability and set the target product profile for the biosimilar candidate.
- Similarity: Biosimilar developers must create their own cell line and unique manufacturing process as they do not have access to the reference product manufacturer's cell lines or manufacturing know-how. As a result, only similar, but not exact, copies of the reference product are feasible. During production, mAbs commonly can degrade to form aggregates, when two or more mAb units bind to each other to form larger structures. These larger structures can lead to changes in activity, or immunogenicity (provoke an immune response). Finally, mAbs may also undergo other chemical degradation events during purification and during storage, each of which can impact potency. Producing biomolecules that are highly similar to the reference product requires a significant interdisciplinary effort that involves a number of iterative cycles between cell line and process development, and analytical characterization.
- Manufacturing: The quality profile of a biologic can change when the manufacturing process scale is increased to commercial size or when processes are modified to fit a facility. The ability to manufacture highly similar molecules must be demonstrated reproducibly at commercial scale. In order to enable pricing flexibility, the manufacturer must minimize costs related to depreciation of its capital investment, raw materials and operations, while maintaining high quality and yield.

Regulatory Challenges

The regulatory requirements for the development of biosimilars in many countries, including the United States, Canada, the EU and Japan, differ from the requirements for developing the reference products. For example, the analytical data package required to initiate clinical trials of biosimilars is more exhaustive due to the prerequisite to generate initial similarity data to the reference product. This process requires multiple qualified methods to ensure that the data generated for similarity testing are reproducible and comprehensive. On the other hand, the non-clinical and clinical programs for biosimilars tend to be more streamlined than for innovator molecules if shown to be analytically similar at the outset and can be supported by the reference product data. The regulatory expectations surrounding biosimilars are still evolving as new draft and final guidance documents are being made public across regulatory authorities.

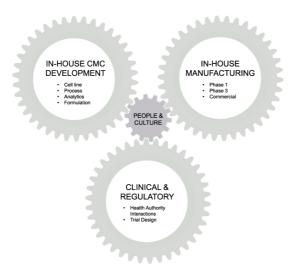
Regulatory hurdles associated with biosimilar development include:

- demonstrating to regulators that specific analytical differences of the biosimilar do not have clinical impact;
- complying with individual regulatory authority requirements for in vivo preclinical studies to enable development and registration in planned markets;
- anticipating and responding to changes in regulatory requirements that could involve additional technical work;
- demonstrating extrapolation for an indication that can drive market share;
- addressing questions during regulatory review of marketing applications to prevent a delay in approval; and
- designing global clinical trials to meet the different regulatory requirements to avoid duplicative studies and additional expense.

Any deficiency in regulatory approach could result in inconsistencies in the final data package for the submission and could lead to a delay or rejection of a product candidate's approval in certain markets.

Our BioSymphony Platform

Escalating healthcare costs and healthcare reform initiatives have been major drivers for the advancement of the biosimilar market. Our BioSymphony Platform is designed to address the technical challenges and regulatory dynamics of the complex biologics industry by developing high quality mAb biosimilars on an accelerated timeline and in an efficient and cost-effective manner. The BioSymphony Platform, driven by our entrepreneurial culture, leverages our fully integrated in-house 48,000 square foot development and manufacturing facility and our team's clinical and regulatory expertise. We believe this model enables significant pricing flexibility, providing us with competitive advantages, and positions us to be a leading biosimilar company. The key elements of our BioSymphony Platform are depicted in the figure below



MAb development presents high technical hurdles, and the success of our development efforts is dependent on an experienced and knowledgeable workforce. We were founded by a team of industry veterans with decades of cumulative experience in biologics development and commercialization. Our team has been instrumental in obtaining global regulatory approval for multiple complex biologics at leading multinational biopharmaceutical companies. We have hired accomplished scientists, engineers and business leaders since our inception, who together foster an entrepreneurial culture that has enabled agility, teamwork and rapid decision-making at Oncobiologics. Together, this has resulted in a highly collaborative approach, which has been critical to the efficient and sustainable operation of our BioSymphony Platform.

Technical Platform

In-House CMC Development Capabilities

We have established a research and development laboratory, which we believe enables the rapid development of highquality mAb biosimilars. By establishing this infrastructure in-house, we have shortened the typical time required to perform the mandatory interdisciplinary iterative steps to develop mAb biosimilar products, which we believe reduces the cost of development. Our platform provides us with a differentiated approach to the following compulsory steps required to develop biosimilars:

- Reference Product Characterization and Cell Line Development: We initially reverse engineer the amino acid sequence and identify the critical quality attributes of the reference product that in turn provides the criteria for the clone selection process. We utilize automated technologies to enable thousands of clones to be screened in an accelerated timeline.
- Bioprocess: We utilize high-throughput mini bioreactors to assess the screened clones and media components to determine which clone and bioreaction process will produce a biosimilar candidate with the closest match to the reference product. We have developed purification technology, including a platform of chromatography techniques that are strategically combined to maximize product-yield while meeting the critical quality attributes of the reference product.
- Formulation: The formulation that best preserves the stability of the biosimilar candidate may be different than the actual formulation of the reference product. We use high-throughput techniques to screen and evaluate many formulation variations to identify the most effective stable formulation.
- Analytical Characterization and In Vitro Similarity: We utilize numerous advanced analytical techniques and
 instruments to enable us to interpret the chemical and structural similarity between our biosimilar candidate and
 the reference product. We apply a rigorous analytical approach to characterize attributes such as structure

(primary, secondary and tertiary), size and glycosylation, among others. We test up to approximately 60 quality attributes with approximately 45 analytical methods. The biological characterization assays support establishing the *in vitro* similarity. Our in-house capabilities provide an expeditious and thorough assessment of biochemical, biophysical and functional attributes.

To pursue development and commercialization of additional mAb biosimilar candidates, we are expanding our development capacity by an additional 82,000 square feet in our current industrial complex. We intend to build-out additional state-of-the-art development infrastructure, which we will occupy in phases as needed. We also plan to add to our scientific team as our development programs expand.

In-House Manufacturing Capability

We have established a state-of-the-art manufacturing facility capable of simultaneously producing multiple biosimilar candidates. Our manufacturing platform utilizes single-use technology, which eliminates the need for rigorous cleaning and sterilization procedures, and related operational requirements necessary for manufacture in traditional stainless-steel based facilities, including the use of the largest single-use bioreactor available. We have been able to construct single-use based antibody manufacturing plants in approximately four months as compared to the few years required for de novo biotechnology manufacturing facilities. We have developed and execute a quality system that meets U.S. and EU standards and have successfully completed two Qualified Person, or QP, audits resulting in cGMP declaration for both Phase 1 and Phase 3 manufacturing. We believe we have sufficient manufacturing capacity until 2018 and will be able to expand capacity in our current location once we build-out our new development infrastructure.

Development-Manufacturing Integration

We believe we have successfully and seamlessly unified our development capabilities and manufacturing processes to minimize time lapses and risks that are frequently encountered in drug development. Our internal processes eliminate the need to transfer technology and processes to third-party manufacturers. Technology transfers are commonly performed through formal procedures consisting of the transfer of know-how, followed by manufacturing process gap assessments, and then finally replication and scale-up of the development process at manufacturing scale. These technology transfer proceedings can take upwards of six months or longer, and could have an adverse effect on product quality. Our platform gives us the ability to initiate manufacturing within approximately six weeks of process development completion. Regulatory and Clinical Approach for a Successful Global Launch

The regulatory requirements for the development of complex biosimilars are significantly different from those for novel biologic therapeutics. These biosimilar regulatory expectations are still evolving with new drafts and final guidance being made public by regulatory authorities worldwide. Due to the limited number of biosimilar regulatory approvals and developing guidance, prior regulatory feedback may not reflect the current expectations of the applicable regulatory authorities. We have developed a global regulatory risk mitigation strategy that we believe allows us to ask the right questions at the right time, enables us to ask probing questions to explore regulatory boundaries, provides the potential to set precedence and assures alignment with regulatory authorities. We believe the key prongs to this strategy include: checking in at certain key milestones to confirm continued acceptability, adjusting our programs with an understanding of evolving requirements, approaching key health authority agencies to discuss development plans and reviewing regulatory quidance and published information.

Our interactions with the U.S. Food and Drug Administration, or FDA, and European Medicines Agency, or EMA, provide us with better understanding of relevant regulatory requirements and build our overall regulatory knowledge base for other upcoming product candidates. We augment these interactions by meeting with key health authorities, selected based on known expertise with biotechnology products or the established rapporteur to the reference product. These additional interactions are used to provide national input for risk mitigation for the clinical trial applications and also additional expert input on our development programs. This knowledge creates efficiencies in our development program by reducing the need to duplicate experiments or clinical trials. We have also retained a regional expert regulatory consultant in Japan, and may do so for other countries as well, to obtain advice on how to approach the regulatory agencies to optimally design our global development plans to meet the relevant local and regional regulatory requirements.

An important aspect of our regulatory development strategy is to design our confirmatory trials to maximize the potential commercial success in order to meet the requirements for extrapolation to other indications and to enable us to seek an interchangeability designation for at least some of our current and future product candidates. Our goal is to develop trial designs that will enable us to extrapolate to all approved indications without additional clinical data. We will also assess the ability for our product candidates that are either self-administered or used chronically in order to seek an interchangeability designation, which allows substitution for the reference product by a pharmacist without the intervention of the healthcare

provider who prescribed the reference product. We have recently completed discussions with the FDA on seeking both biosimilarity and interchangeability designation for ONS-3010, our Humira biosimilar. We may also develop trial designs to demonstrate clinical advantages of our biosimilar product candidates over reference products.

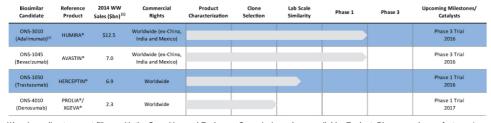
Data from *in vivo* animal studies may not be required to initiate human clinical trials for biosimilars, and as such we only conduct animal studies if it is deemed necessary to meet regulatory requirements or to address safety questions. Our approach to confirm that there is no clinically meaningful impact of any observed analytical differences is to conduct a Phase 1 clinical trial, followed by a single Phase 3 confirmatory clinical trial in a sensitive population. Based on regulatory guidance as well as our recent interactions with regulatory bodies, we believe this approach will continue to be acceptable to the regulatory bodies. Because regulatory bodies generally do not require a repeat of the original efficacy and safety trials, we continue to explore the potential of novel approaches to trial design that can confirm similarity in shorter duration of treatment and/or with smaller patient numbers, which can result in shortened timelines to registration. In certain cases, we may even be able to demonstrate that our biosimilar product candidates are more effective or safer than the reference products.

Our People and Culture

MAb development presents high technical hurdles, and the success of our development efforts is dependent on an experienced and knowledgeable work-force. We were founded by a team of industry veterans, with decades of cumulative experience in biologics development and commercialization at some of the leading biopharmaceutical companies including Eli Lilly and Company, Bristol-Myers Squibb Company and Genentech, Inc. Our leadership team has built a platform with the goal of expeditiously identifying, developing, manufacturing and commercializing mAb biosimilars in an efficient and cost-effective manner. We have fostered a culture of agility, collaboration and efficient decision-making with a focus on scientific rigor, which we believe forms the core of our BioSymphony Platform.

Our Product Candidate Portfolio

We are currently developing a portfolio of eight commercially attractive mAb biosimilars, for which the corresponding reference products generated an aggregate of approximately \$35.3 billion in global revenue in 2014. We have also identified two mAb biosimilars for which we expect to initiate development by the end of 2016. The product candidates in our pipeline were selected on the basis of an internal evaluation process that relies on a weighted criteria comprised of the following factors: (i) future commercial potential; (ii) alignment of the reference product's patent expiry against the requisite development timelines; (iii) probability of technical success; and (iv) global competitive landscape. Our current pipeline of mAb biosimilars for which we have completed clone selection is described in the following chart.



- According to recent filings with the Securities and Exchange Commission, where available, EvaluatePharma and manufacturers' reports.
- (2) We currently have an arrangement with Huahai for the co-development and joint commercialization of ONS-3010 in certain major developed markets, including the United States and EU. Assuming Huahai funds its proportionate share of development costs incurred after completion of the "Phase-3 Ready Package" for ONS-3010, we will have a 49% value ownership interest with Huahai having a 51% value ownership interest in ONS-3010.

ONS-3010 — Adalimumab (Humira) Biosimilar

Humira, the reference product for ONS-3010, is a subcutaneous injectable mAb that binds to TNFα. TNFα belongs to a family of pro-inflammatory cytokines, or soluble protein mediators, that are key initiators of immune-mediated inflammation in many different diseases, such as rheumatoid arthritis, psoriatic arthritis, psoriasis, ankylosing spondylitis, Crohn's disease and ulcerative colitis. Several biologic agents, including Humira, have been developed to inhibit the inflammatory activity of TNFs in the context of these diseases and are collectively referred to as the anti-TNF class of therapeutics.

Market Opportunity

Worldwide sales of Humira were \$12.5 billion in 2014, with approximately \$6.5 billion in the United States and are projected to grow to \$13.9 billion worldwide by 2020. Humira has been approved by the FDA and the EMA for the treatment of nine and 12 indications, respectively. Humira is currently approved in the United States for the following indications: rheumatoid arthritis, juvenile idiopathic arthritis, psoriatic arthritis, ankylosing spondylitis, adult crohn's disease, pediatric crohn's disease, ulcerative colitis, plaque psoriasis, and hidradenitis suppurativa. We initially intend to seek approval of ONS-3010, a subcutaneous injectable, for the treatment of plaque psoriasis, and will pursue extrapolation of ONS-3010 across all eligible approved indications in order to maximize the commercial potential for ONS-3010. We have also designed our Phase 3 clinical trial for ONS-3010 in a way that we believe will enable us to also seek an interchangeability designation in the United States. We have discussed our approach with the FDA and the EMA. Chemistry Manufacturing Controls, or CMC, Status

We have manufactured and characterized a master cell bank from a selected clone and demonstrated its stability in accordance with global regulatory guidelines. We have also completed development of the ONS-3010 commercial manufacturing process. A novel formulation of similar stability was developed and in place prior to the Phase 1 clinical trial and this same formulation will be used for the planned Phase 3 clinical trial.

We have confirmed that the amino acid sequence of ONS-3010 matches Humira. Extensive analytical characterization and *in vitro* studies comparing ONS-3010 to both the U.S. and the EU versions of Humira were completed and a representative overlay demonstrating equivalent potency is shown in the following figure. Luminescence is a highly sensitive method for assaying cell proliferation and cytotoxicity. Potency is measured based on a comparison of the dose dependent response of the test article to the reference article. Based on the result of this assay and numerous analytical and *in vitro* characterization data, we initiated a Phase 1 clinical trial to assess pharmacokinetics, or PK, and safety. PK means how the body affects the molecule.

Comparative Potency of ONS-3010 versus Humira (U.S. and EU) ONS-3010 (triangles), U.S.-Humira (squares), EU-Humira (circles).

Using our commercial scale process at our manufacturing facility, we are manufacturing sufficient supply of ONS-3010 for Phase 3 clinical testing. We have contracted with a large U.S.-based pharmaceutical fill-finish facility to package ONS-3010 into a single-use, pre-filled syringe. We have also selected a partner for the development of an auto-injector to be used as an additional commercial delivery device.

ng/ml Antibody

100

Clinical Development Status and Clinical Trial Data

10000

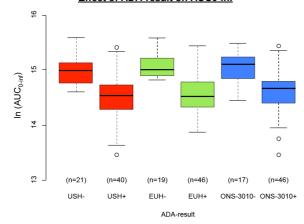
We have successfully completed a randomized, double-blind, single-dose and single-center Phase 1 clinical trial comparing ONS-3010 to Humira in 198 subjects receiving a 40 mg dose in three treatment arms: ONS-3010, U.S.-Humira and EU-Humira. This Phase 1 clinical trial was performed at the Center for Human Drug Research in Leiden, The Netherlands under the auspices of the Stichting Beoordeling Ethiek Biomedisch Onderzoek. In this trial, ONS-3010 met its primary and

secondary endpoints, demonstrating a similar PK profile, as well as an immunogenicity profile equivalent to both U.S.- and E.U.-Humira across all three treatment arms. ONS-3010 was well tolerated and demonstrated a favorable safety profile, which was similar to the safety profile for both U.S.- and E.U.-Humira, and demonstrated a lower injection site reaction rate than both U.S.- and E.U.-Humira. The following figure demonstrates the mean concentration-time profile of U.S.- Humira, EU-Humira and ONS-3010. The vertical line at day one denotes dosing. These results suggest a high degree of similarity between the three products.

Primary PK Endpoint (AUC $_{0-\infty}$) ••• Hum EU 40mg ■■■ Hum US 40mg ▲▲▲ ONS3010 40mg 10000 Adalimumab (ng/mL) 1000 71 Scr 8 15 22 29 36 43 50 57 64 Day

The following figure demonstrates the effect of anti-drug antibodies on the concentrations (AUC, or area under the curve) for the three products. There were no significant differences in either the amount of anti-drug antibodies formed or their effect on concentration between the three products, which again suggest a high degree of similarity between the three products.

Effect of ADA-result on AUC0-inf



The following table reports the most frequently reported adverse events regardless of relationship. The most frequent occurring adverse event was local administration site irritation (either burning sensation or pain upon injection at the injection site), which was observed less frequently in the ONS-3010 treatment group.

Adverse Event	ONS-3010 N (%)	EU-Humira N (%)	U.SHumira N (%)
Burning sensation	12 (18.2)	29 (43.9)	31 (47.0)
Headache	29 (43.9)	20 (30.3)	27 (39.4)
Nasopharyngitis	12 (18.2)	19 (28.8)	12 (18.2)

Regulatory Status and Development Plan

Prior to commencement of our Phase 1 clinical trial in 2014, we received feedback from both FDA and EMA, which provided guidance for the design of the clinical trial and our similarity testing approach. Since completion of the Phase 1 clinical trial, we had additional regulatory meetings with the FDA and the EMA, as well as other national regulatory agencies such as the Medicines and Healthcare Products Regulatory Agency, or MHRA, and the Swedish regulatory authority, and obtained further guidance on the Phase 3 clinical trial design in plaque psoriasis and the general similarity development plan for registration. We have completed a site feasibility study to identify global sites (North and South America, Europe, Australia and New Zealand) in preparation for the commencement of our planned Phase 3 clinical trial in 2016.

ONS-1045 — Bevacizumab (Avastin) Biosimilar

Avastin, the reference product for ONS-1045, is a mAb administered by infusion that interferes with tumor growth by binding to VEGF, a protein that stimulates the formation of new blood vessels.

Market Opportunity

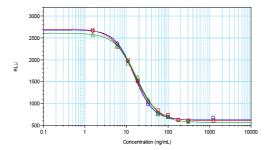
Worldwide sales of Avastin were approximately \$7.0 billion in 2014 and are projected to grow to \$7.1 billion in 2015. Furthermore, worldwide sales of Avastin are projected to grow to \$7.4 billion by end of 2019. Avastin has been approved by the FDA and the EMA for the treatment of seven indications. Avastin is currently approved in the United States for the following indications: metastatic colorectal cancer, with intravenous 5-fluorouracil-based chemotherapy for first- or second-line treatment; metastatic colorectal cancer, with fluoropyrimidine- irinotecan- or fluoropyrimidine-oxaliplatin-based chemotherapy for second-line treatment in patients who have progressed on a first-line Avastin containing regimen; non-squamous non-small cell lung cancer, with carboplatin and paclitaxel for first line treatment of unresectable, locally advanced, recurrent or metastatic disease; glioblastoma, as a single agent for adult patients with progressive disease following prior therapy; metastatic renal cell carcinoma with interferon alfa; cervical cancer, in combination with paclitaxel and cisplatin or paclitaxel and topotecan in persistent, recurrent, or metastatic disease; platinum-resistant recurrent epithelial ovarian, fallopian tube or primary peritoneal cancer, in combination with paclitaxel, pegylated liposomal doxorubicin or topotecan. We initially intend to seek approval of ONS-1045, which will be delivered by infusion, for the treatment of non-squamous non-small cell lung cancer, and will pursue extrapolation of ONS-1045 across all of these approved indications, in order to maximize the commercial potential for ONS-1045.

CMC Status

We have manufactured and characterized a master cell bank from a selected clone and demonstrated its stability in accordance with global regulatory guidelines. In addition, we have completed development of the ONS-1045 commercial manufacturing process.

We have confirmed that the amino acid sequence of ONS-1045 matches Avastin. Extensive analytical characterization and *in vitro* studies comparing ONS-1045 to both the U.S. and the EU-Avastin were completed and a representative overlay demonstrating equivalent potency is shown in the following figure.

Comparative Potency of ONS-1045 versus Avastin (U.S. and EU) ONS-1045 (triangles), U.S.-Avastin (circles), EU-Avastin (squares)

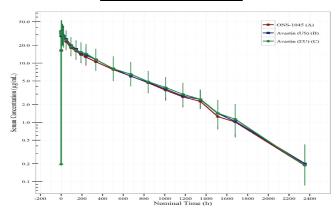


In preparation for producing Phase 3 clinical supplies, we are manufacturing ONS-1045 using our commercial scale process at our manufacturing facility. These batches will be filled into vials at a contracted U.S.-based commercial fill-finish

Clinical Development

We have completed a randomized, double-blind, single-dose and single-center Phase 1 clinical trial comparing ONS-1045 to U.S.-licensed Avastin and EU-licensed Avastin in 135 subjects. This Phase 1 trial was performed at the Center for Human Drug Research in Leiden, The Netherlands under the auspices of the Stichting Beoordeling Ethiek Biomedisch Onderzoek. PK data, safety and immunogenicity were collected for a total of 98 days after a single 2.0 mg/kg dose. In this trial, ONS-1045 met its primary and secondary endpoints demonstrating a similar PK profile, as well as an immunogenicity profile equivalent to both U.S.- and EU-Avastin. Safety was comparable across all three groups. Immunogenicity was low with only one subject in the EU-licensed Avastin arm developing an anti-drug antibody, or ADA, at day 98. No neutralizing antibodies were detected in any arm. The following figure demonstrates the concentration-time profile of ONS-1045, U.S.licensed Avastin, and EU-licensed Avastin as the mean. The vertical line at time zero denotes dosing. These results suggest a high degree of similarity between the three products.

Primary PK Endpoint (AUC $_{0-\infty}$)



Regulatory Status and Development Plan

Prior to the commencement of a Phase 1 clinical trial in 2015, we received feedback from both the FDA and the EMA, which provided guidance for the clinical trial design and similarity testing approach. We have completed the next series of our regulatory interactions to obtain further guidance on our confirmatory trial design. Based on input from the FDA, EMA, MHRA and the Danish Health and Medicines Agency, we believe we have designed the appropriate confirmatory trial. We have also begun preparatory planning with the intention to discuss our Japanese development strategy with Japan's Pharmaceuticals and Medical Devices Agency in 2016.

We have initiated a site feasibility study (targeting North and South America, Europe and Asia) in advance of our global Phase 3 clinical trial, which we expect to commence in 2016.

ONS-1050 — Trastuzumab (Herceptin) Biosimilar

Trastuzumab (Herceptin), the reference product for ONS-1050, is a mAb administered by infusion that binds to HER2. Herceptin has been shown to inhibit the proliferation of human tumor cells that overexpress HER2.

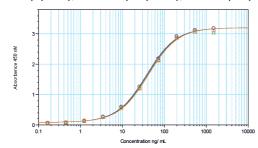
According to the MedTrack Report, worldwide sales of Herceptin totaled approximately \$6.9 billion in 2014. Herceptin is currently approved for HER2+ breast cancer and HER2+ metastatic gastric cancer in both the United States and the EU. as well as HER2+ gastroesophageal junction cancer in the United States. Worldwide sales of Herceptin are projected to grow to \$7.1 billion by end of 2016. We have not yet determined the indication for which we will initially seek approval of ONS-1050. However, we will pursue extrapolation of ONS-1050 across all of these approved indications, in order to maximize the commercial potential for ONS-1050, and will deliver ONS-1050 by infusion.

CMC Status

A clone with a highly similar profile to Herceptin has been chosen for further process development. We have demonstrated the stability of the cell line, and characterization of the master cell bank is planned to be completed in the first half of 2016. Manufacturing process development for ONS-1050 is nearing completion. We have confirmed that the amino acid sequence of ONS-1050 matches Herceptin. Extensive analytical characterization and in vitro functionality studies comparing ONS-1050 to Herceptin are underway and expected to be completed in 2016 to support the biosimilarity assessment required to initiate clinical trials. A representative overlay demonstrating equivalent potency of ONS-1050 to U.S. and EU-Herceptin is shown in the following figure.

Comparative Potency of ONS-1050 versus Herceptin (U.S. and EU).

ONS-1050 (squares), U.S.-Herceptin (circles), EU-Herceptin (triangles)



We are planning to manufacture ONS-1050 for a Phase 1 PK study using our commercial scale process at our manufacturing facility. This batch is expected to be vialed at a U.S. pharmaceutical filling facility.

Regulatory Status and Development Plans

We received initial EMA guidance in the second quarter 2014 that supports our approach to the initial Phase 1 trial design. In accordance with our regulatory strategy and in advance of initiating Phase 1 clinical trials, we plan to interact with FDA, as well as other national regulatory agencies such as MHRA and the Federal Institute for Drugs and Medical Devices, to also obtain further guidance on study design. We expect to commence our Phase 1 clinical trial during 2016.

Preclinical Biosimilar Pipeline

In addition to the product candidates we are currently advancing through clinical development, we are leveraging our BioSymphony Platform to develop additional preclinical candidates. Further development of such preclinical product candidates is subject to ongoing commercial analysis, among other items. We have not yet determined the initial

indications for which we will seek approval for such preclinical product candidates. Our strategy will be to seek initial approval for an approved indication of the reference product, which will be determined in consultation with regulatory authorities regarding clinical trial and study design, and then seek to expand such approval to the same indications as the reference product. We also intend to deliver our biosimilars in the same manner as the reference product.

Two biosimilar product candidates, ONS-4010, a biosimilar to denosumab (Prolia®/Xgeva®), and ONS-1055, a biosimilar to cetuximab (Erbitux[®]), have cell lines developed and ONS-4010 has clone selection completed. Denosumab is a fully human mAb with affinity and specificity for human RANKL. Prolia is a subcutaneous injectable currently approved in the United States for treatment (i) of postmenopausal women with osteoporosis at high risk for fracture, (ii) to increase bone mass in men with osteoporosis at high risk for fracture, (iii) to increase bone mass in men at high risk for fracture receiving androgen deprivation therapy for nonmetastatic prostate cancer and (iv) to increase bone mass in women at high risk for fracture receiving adjuvant aromatase inhibitor therapy for breast cancer. Xgeva is a subcutaneous injectable currently approved in the United States for prevention of skeletal-related events in patients with bone metastases from solid tumors, treatment of adults and skeletally mature adolescents with giant cell tumor of bone that is unresectable or where surgical resection is likely to result in severe morbidity, and treatment of hypercalcemia of malignancy refractory to bisphosphonate therapy. Erbitux, administered by infusion, is currently approved in the United States for the following head and neck cancer treatments: locally or regionally advanced squamous cell carcinoma of the head and neck in combination with radiation therapy, recurrent locoregional disease or metastatic squamous cell carcinoma of the head and neck in combination with platinum-based therapy with 5-FU, and recurrent or metastatic squamous cell carcinoma of the head and neck progressing after platinum-based therapy; and for the following colorectal cancer treatments; K-Ras wild-type EGFR-expressing, metastatic colorectal cancer as determined by FDA-approved tests in combination with FOLFIRI for first-line treatment, in combination with irinotecan in patients who are refractory to irinotecan-based chemotherapy, and as a single agent in patients who have failed oxaliplatin- and irinotecan-based chemotherapy or who are intolerant to irinotecan. We have completed preliminary characterization and the reverse engineering of the amino acid sequences of the reference products. We plan to complete process development and commence our Phase 1 clinical trial for ONS-4010 in 2017. We plan to complete lab scale similarity of ONS-1055 in 2016. According to manufacturers' reports, 2014 worldwide sales of Erbitux® were \$2.0 billion.

Three additional biosimilar product candidates, ONS-3030, a biosimilar to tocilizumab (Actemra®/Roactemra®), ONS-3035, a biosimilar to golimumab (Simponi®), and ONS-3040, a biosimilar to ustekinumab (Stelara®), are in early development. According to manufacturers' reports, 2014 worldwide sales of Actemra/Roactemra, Simponi and Stelara were \$1.3 billion, \$1.2 billion and \$2.1 billion, respectively. We are focused on reverse engineering the reference product characteristics and developing cell lines for clone selection. We anticipate completing clone selection in 2016 for ONS-3030, and reference product characterization in 2016 for each of ONS-3035 and ONS-3040.

Commercialization, Sales and Marketing

Our commercialization strategy is to maximize the revenue potential of our biosimilar product candidates along with seeking and effecting selective licensing opportunities to fund the development of our assets. We currently intend to retain U.S. rights to select product candidates while entering into additional strategic collaborations and partnerships with biotechnology and pharmaceutical companies in other regions to maximize the commercial value of our pipeline. Our intent is to enter into partnerships that result in economic and transactional efficiencies by including upfront and post-Phase 1 development payments that would, in large part, offset global Phase 3 clinical development costs for each biosimilar product candidate. For example, we have a joint participation agreement in place for ONS-3010 with Zhejiang Huahai Pharmaceutical Co., Ltd., or Huahai, whereby we share post-Phase 1 development costs with Huahai, and proportionately share the revenues from commercialization of ONS-3010 in the United States, Canada, EU, Japan, Australia and New Zealand. We could also be required to form a joint venture to further develop and commercialize ONS-3010 with Huahai in the agreed countries, if so requested by Huahai, However, we do not have any other development and commercialization agreements for the United States or for major ex-U.S. markets, such as the EU and Japan. In 2012 and 2013, we established early country-specific partnerships for ONS-3010 and ONS-1045 in China with Huahai, in India with IPCA Laboratories Limited, or IPCA, and in Mexico with Laboratories Liomont, S.A. de C.V., or Liomont. In each of these smaller ex-U.S. markets, we have identified potential synergies between our partner's strategy to enter the biologics marketplace and access to our biosimilar development platform. These partnerships have resulted in \$23.5 million in payments to us to date, and are expected to result in high single-digit or low teens royalty streams for two of our licensed products, ONS-3010 and ONS-1045.

The United States and the EU are expected to be the largest and economically most attractive biosimilar markets and we plan to retain U.S. marketing and commercialization rights to our product candidates and actively pursue licensing

partnerships for the EU. We intend to build our commercialization infrastructure through an option to outsource the sales and marketing work force via a contract sales organization. As such, we have engaged a consulting company to evaluate our options and to assist with the development of a U.S. sales and marketing strategy. We currently focus on those critical success factors associated with commercial success, namely the identification and interactions between (i) payors, (ii) providers, (iii) pharmacy benefit management organizations, (iv) patients and (v) physicians. We are currently developing a strategic roadmap that entails (i) developing and validating our commercialization strategy; (ii) exploring/establishing a distribution and commercialization relationship; and (iii) eventually developing our own sales and marketing force.

We believe that the U.S. biosimilar market adoption and penetration rates for each biosimilar will be determined primarily by four key factors: (1) the prevalence of payor incentives to drive substitution, (2) the physician and patient share influence relative to the payor in the prescribing decision, (3) rapidity of feedback on the safety and efficacy of the drug based on the totality of the patient response and (4) patient criticality (the degree of severity in the patient's condition).

Collaboration and License Agreements

We enter into collaboration and license agreements in the ordinary course of our business. We have in-licensed certain technology from Selexis SA, or Selexis, that we are using to research and develop our biosimilar product candidates. For biosimilar product candidates developed using the Selexis technology, we enter into commercial license agreements with Selexis that give us rights to commercialize, file INDs and enter into collaborative arrangements with third parties for the further development and commercialization of such biosimilar product candidates. Our commercialization strategy is to retain U.S. rights to select biosimilar product candidates while entering into additional strategic collaborations and partnerships in other regions to maximize the commercial value of our pipeline. Although we do not yet have any such agreements for major ex-U.S. markets, such as the EU or Japan, we have licensing and collaboration agreements with select partners for smaller ex-U.S. markets where we would not otherwise intend to commercialize our biosimilar product candidates, including India, Mexico and China, which agreements have collectively provided an aggregate of \$23.5 million in payments as of December 31, 2015.

Selexis - Humira (ONS-3010), Avastin (ONS-1045) and Herceptin (ONS-1050)

In October 2011, we entered into a research license agreement with Selexis SA, or Selexis, pursuant to which we acquired a non-exclusive license to conduct research internally or in collaboration with third parties to develop recombinant proteins from mammalian cells lines created using the Selexis expression technology, or the Selexis Technology. The original research license had a three-year term, but on October 9, 2014, was extended for an additional three-year term through October 9, 2017. We may sublicense our rights with Selexis' prior written consent but are prohibited from making commercial use of the Selexis Technology or the resultant recombinant proteins comprising our biosimilars in humans, or from filing an investigational new drug, or IND, absent a commercial license agreement with Selexis covering the particular biosimilar product candidate developed under the research license.

In connection with the entry into the research license, we paid Selexis an initial fee of CHF 100,000 (approximately \$0.1 million) and agreed to make additional annual maintenance payments of the same amount for each of the three years that the research license agreement term was extended. As of September 30, 2015, we have paid Selexis an aggregate of approximately \$0.4 million under the research license agreement.

Selexis also granted us a non-transferrable option to obtain a perpetual, non-exclusive, worldwide commercial license under the Selexis Technology to manufacture, or have manufactured, a recombinant protein produced by a cell line developed using the Selexis Technology for clinical testing and commercial sale. We exercised this option in April 2013 and entered into three commercial license agreements as described more fully below.

Either party may terminate the research license in the event of an uncured material breach by the other party or in the event the other party becomes subject to specified bankruptcy, winding up or similar circumstances. Either party may terminate the research license under designated circumstances if the Selexis Technology infringes third party proprietary rights. Although we have the right to terminate the research license at any time for our convenience, we agreed with our other collaborator parties to whom we have sublicensed the Selexis Technology not to exercise such right without their consent, which agreements are described below.

Commercial License Agreements

On April 11, 2013, following the exercise of our option to enter a commercial license under the Selexis research license, we entered into commercial license agreements with Selexis for each of the ONS-3010, ONS-1045 and ONS-1050 biosimilar product candidates that were developed under the research license (which agreements were subsequently

amended on May 21, 2014). Under the terms of each commercial license agreement, we acquired a non-exclusive worldwide license under the Selexis Technology to use the cell lines developed under the research license and related materials, to manufacture and commercialize licensed and final products, with a limited right to sublicense.

We were required to pay an upfront licensing fee of CHF 65,000 (approximately \$0.1 million) to Selexis for each commercial license and also agreed to pay up to CHF 365,000 (approximately \$0.4 million) in milestone payments for each licensed product. In addition, we are required to pay a single-digit royalty on a final product-by-final product and country-by-country basis, based on worldwide net sales of such final products by us or any of our affiliates or sublicensees during the royalty term. The royalty term for each final product in each country is the period commencing from the first commercial sale of the applicable final product in the applicable country and ending on the expiration of the specified patent coverage. At any time during the term, we have the right to terminate our royalty payment obligation by providing written notice to Selexis and paying Selexis a royalty termination fee of CHF 1,750,000 (approximately \$1.8 million). As of September 30, 2015, we have paid Selexis an aggregate of approximately \$0.3 million under the commercial license agreements.

Each of our commercial agreements with Selexis will expire in its entirety upon the expiration of all applicable Selexis patent rights. The licensed patent rights consist of two patent families. The first patent family relates to methods of transferring cells, and is filed in the United States, Australia, Canada, Europe, Japan and Singapore. This patent family will begin to expire worldwide in 2022. The second patent family claims DNA compositions of matter useful for having protein production increasing activity. This patent family is filed in the United States, Australia, Canada, China, Europe, Hong Kong, Israel, India, Japan, South Korea, Russia, Singapore and South Africa. This patent family will begin to expire worldwide in 2025. Either party may terminate the related agreement in the event of an uncured material breach by the other party or in the event the other party becomes subject to specified bankruptcy, winding up or similar circumstances. Either party may also terminate the related agreement under designated circumstances if the Selexis Technology infringes third-party intellectual property rights. In addition, we have the right to terminate each of the commercial agreements at any time for our convenience; however, with respect to the agreements relating to ONS-3010 and ONS-1045, this right is subject to Liomont's consent pursuant to a corresponding letter we executed in conjunction with the standby agreement entered into between Selexis and Liomont on November 11, 2014. The standby agreement permits Liomont to assume the license under the applicable commercial agreement for Mexico upon specified triggering events involving our bankruptcy, insolvency or similar circumstances.

Ex-U.S. Collaboration and License Agreements

Aside from our joint participation agreement in place for ONS-3010 with Huahai, whereby we agreed to share post-Phase 1 development costs, and proportionately share the revenues from commercialization of ONS-3010 in the United States, Canada, EU and Japan, among other markets, and under which we could be required to form a joint venture with Huahai for ONS-3010 if so requested by Huahai, we do not have any commercial license or development agreements for the United States or for major ex-U.S. markets, such as the EU or Japan. We currently have collaboration and license agreements for smaller ex-U.S. markets where we would not otherwise intend to commercialize our biosimilar product candidates, which we entered into to help offset some of our development costs. Collectively, such agreements have provided an aggregate of \$23.5 million in payments as of December 31, 2015 for our most advanced biosimilar product candidates. Our contracts include agreements with IPCA (for ONS-3010, ONS-1045 and ONS-1050 in India and other regional markets), Liomont (for ONS-3010 and ONS-1045 in Mexico), and Huahai (for ONS-3010 and ONS-1045 in China). Our arrangements with these partners generally include a strategic license for a defined territory for agreed biosimilar product candidates, and may also include agreements to assist with research and development to assist our contract counterparty in establishing their own mAb research, development and manufacturing capabilities. Under our existing strategic licensing agreements, we generally received an upfront payment upon execution, and have the ability to earn additional regular milestone payments and the right to receive royalties (generally a mid-single digit to low-teens percentage rate) based on net sales in the agreed territory. Our existing agreements to assist with research and development also included an upfront payment upon execution, and we have the ability to earn additional regular milestone payments, and the right to receive royalties (generally a mid-single digit to low-teens percentage rate) based on net sales in the agreed territory.

Generally, our agreements expire on a product-by-product basis on the date of the expiration of the royalty revenue term for all products in the territory. The royalty revenue term is 10 years from the date of first commercial sale and any renewal is subject to good faith negotiation. The license term for the agreed territory is perpetual. Either party may terminate the agreement in its entirety or with respect to a particular product if the other party materially breaches the agreement,

subject to specified notice and cure periods. In addition, we have the right to terminate the agreement in connection with any interference, opposition or challenge of our patent rights. If the agreement is terminated due to our breach, our contract counterparty is generally free to use all applicable technology and know-how that we have provided under the agreement

As noted above, our collaboration agreements with Huahai also includes a joint participation agreement, which provides for the co-funding of development of ONS-3010 in the United States, Canada, EU, Japan, Australia and New Zealand and the proportionate sharing of the revenues from commercialization of ONS-3010 in the agreed countries, and also provides for the formation of a joint venture with Huahai to further develop and commercialize ONS-3010 with Huahai in the agreed countries, if so requested by Huahai. We had the option to terminate this joint participation agreement by exercising the option prior to December 23, 2015 and paying Huahai a total of \$28.0 million, consisting of an \$11.0 million initial payment within seven business days of exercise, and four additional installment payments of \$4.25 million payable over the course of the following year. We did not make the \$11.0 million initial payment within the time frame required.

In the event Huahai funds its proportionate share of development costs incurred after completion of the "Phase-3 Ready Package," Huahai would be entitled to retain its 51% value ownership, with us entitled to retain our 49% value ownership, of ONS-3010 in the agreed countries. Similarly, revenues from the commercialization of ONS-3010 in the agreed countries (including major markets such as the United States and the EU, among others), would also be shared based on such proportional ownership interests. In the event that Huahai does not fund its proportionate share of such development costs, the joint participation agreement provides for a proportionate adjustment to our respective value ownership interests based on our respective investments in such development costs, which would increase our value ownership interest in ONS-3010.

Throughout the term of the joint participation agreement, we and our affiliates are prohibited from, directly or indirectly, conducting or having conducted or funding any discovery, research, development, regulatory, manufacturing or commercialization activity, alone or in collaboration with a third party, of any biosimilar product having the same reference product as the ONS-3010 compound or corresponding products, for use in the United States, Canada, EU, Japan, Australia and New Zealand, other than ONS-3010 with Huahai pursuant to the joint participation agreement.

Unless terminated early upon mutual agreement of the parties, or due to a material breach of either party that is uncured, the joint participation agreement will terminate upon entry into a mutually acceptable collaboration agreement between us and Huahai for ongoing development and commercialization of ONS-3010 in the agreed countries, or we and Huahai enter into an agreed license with a third party for such ongoing development and commercialization of ONS-3010 in the agreed countries. If the joint participation agreement is terminated for cause due to our breach, we could be required to refund Huahai any amounts funded by Huahai to develop ONS-3010, as well as pay Huahai a 6% royalty on net sales made by us or an affiliate, as well as 25% of revenues we receive from a sublicensee for commercial sales of ONS-3010 until the aggregate of such payments is equal to 10 times the amount Huahai funded for the development of ONS-3010. Furthermore, if we were to file a voluntary petition in bankruptcy, or have an involuntary petition filed that we could not dismiss within 120 days, then Huahai would be granted an exclusive license to continue the development and commercialization of ONS-3010 in the agreed countries.

As of December 31, 2015, we have received an aggregate of \$5.0 million of payments from IPCA under our various agreements, an aggregate of \$2.5 million of payments from Liomont under our various agreements, and an aggregate of \$16.0 million of payments from Huahai under our various agreements, \$10.0 million of which were pursuant to the joint participation agreement.

Competition

Biosimilars have become a significant growth area for the biopharmaceutical industry, attracting large pharmaceutical companies as well as small niche players. Biosimilars of complex mAbs have limited competition to those industry players who have a high technical capability. The large players who have successfully taken mAb products into Phase 3 clinical trials include Pfizer Inc., or Pfizer, Amgen Inc., or Amgen, Sandoz, Inc., or Sandoz, Boehringer Ingelheim, or Boehringer, and Samsung Bioepis, Ltd., or Bioepis, while smaller niche players with clinical assets include us, Coherus Biosciences, Inc., or Coherus, Momenta Pharmaceuticals, Inc. and Celltrion, Inc., or Celltrion, as well as other regional developers. Additionally, companies developing novel products with similar indications, and the innovator companies that are implementing protection strategies are expected to influence our ability to penetrate and maintain market share. Competition from generic small molecule manufacturers may also arise although these companies are less likely to have the technical, regulatory and clinical expertise required to succeed in this market unless they partner or acquire experienced biotech entities.

Our principal mAb biosimilar competitors include both companies with biologic reference products, as well as those with biosimilar products, such as AbbVie Inc. (the holder of rights to Humira), Genentech Inc. (the holder of rights to the Avastin), Pfizer (pipeline, which includes five biosimilar candidates), Amgen (pipeline, which includes six biosimilar candidates), Sandoz (as a biosimilar company with the only currently FDA-approved biosimilar product), Bioepis and Merck & Co., Inc., or Merck (through their collaboration to develop and commercialize biosimilar candidates), Coherus (pipeline, which includes two Phase 3 biosimilar candidates), Bioepis (pipeline, which includes six biosimilar candidates) and Celltrion (pipeline, which includes two biosimilar candidates). Many of our competitors, either alone or with their strategic partners, have substantially greater financial, technical and human resources than we do and greater experience in the discovery and development of mAb product candidates, obtaining FDA and other regulatory approvals of treatments and commercializing those treatments. Accordingly, our competitors may be more successful than us in obtaining approval for mAb biosimilars and achieving widespread market acceptance. Our competitors' treatments may be more effectively marketed and sold than any products we may commercialize that may cause limited market share before we can recover the expenses of developing and commercializing any of our product candidates.

Mergers and acquisitions in the biotechnology and pharmaceutical industries may result in even more resources being concentrated among a smaller number of our competitors. Smaller or early-stage companies may also prove to be significant competitors, particularly through collaborative arrangements with large and established companies. These activities may lead to consolidated efforts that allow for more rapid development of mAb biosimilar candidates than us.

These competitors also compete with us in recruiting and retaining qualified scientific and management personnel, the ability to work with specific clinical contract organizations due to conflict of interest, and also the conduct of trials in the ability to recruit clinical trial sites and subjects for our clinical trials.

We expect any products that we develop and commercialize to compete on the basis of, among other things, efficacy, safety, price and the availability of reimbursement from government and other third-party payors. Our commercial opportunity could be reduced or eliminated if our competitors develop and commercialize products that are viewed as safer, more convenient or less expensive than any products that we may develop. Our competitors also may obtain FDA or other regulatory approval for their products more rapidly than we may obtain approval for ours, which could result in our competitors establishing a strong market position before we are able to enter the market.

Intellectual Property

Our commercial success depends in part on our ability to avoid infringing the proprietary rights of third parties, our ability to obtain and maintain proprietary protection for our technologies where applicable and to prevent others from infringing our proprietary rights. We seek to protect our proprietary technologies by, among other methods, evaluating relevant patents, establishing defensive positions, monitoring EU oppositions and pending intellectual property rights, preparing litigation strategies in view of the U.S. legislative framework and filing U.S. and international patent applications on technologies, inventions and improvements that are important to our business. As of February 8, 2016, we own two PCT patent applications including formulations developed for ONS-3010, as well as methods of purification developed for ONS-3010 and methods of purification developed for ONS-1045, as well as six provisional patent applications related to methods for purifying antibodies to separate isoforms, reducing the high molecular weight species, and modulating afucosylated species, as well as buffer formulations for enhanced antibody stability and methods for determining the amino acid sequence of antibodies. Our formulation patent application is a pending international application that was filed under the Patent Cooperation Treaty, or PCT. The PCT is an international patent law treaty that provides a unified procedure for filing patent applications to protect inventions in each of its contracting states. Thus, a single PCT application can be converted into a patent application in any of the more than 145 PCT contracting states, and is considered a simple, cost-effective means for seeking patent protection in numerous regions or countries. This nationalization (converting into an application in any of the contracting states) typically occurs 18 months after the PCT application filing date. Accordingly, we anticipate that our PCT application will be nationalized in April 2016. We have not vet determined the countries in which we will pursue national patent protection. If granted, patents issuing from this application are expected to expire in 2034, absent any adjustment or extensions. Our methods of purification patent application is a pending U.S. provisional patent application and, if granted, will expire in 2036. We also rely on trade secrets, know-how and continuing technological innovation to develop and maintain our proprietary position.

The term of individual patents depends upon the legal term of the patents in countries in which they are obtained. In most countries, including the United States, the patent term is generally 20 years from the earliest date of filing a non-provisional patent application in the applicable country. In the United States, a patent's term may, in certain cases, be

lengthened by patent term adjustment, which compensates a patentee for administrative delays by the United States Patent and Trademark Office in examining and granting a patent or may be shortened if a patent is terminally disclaimed over a commonly owned patent or a patent naming a common inventor and having an earlier expiration date.

Regulatory

Government Regulation and Product Approval

Government authorities at the federal, state and local level in the United States and in other countries extensively regulate, among other things, the research, development, testing, manufacture, packaging, storage, recordkeeping, labeling, advertising, promotion, distribution, marketing, import and export of biopharmaceutical products such as our product candidates. The processes for obtaining regulatory approvals in the United States and in foreign countries, along with subsequent compliance with applicable statutes and regulations, require the expenditure of substantial time and financial resources.

FDA Approval Process for Biosimilars

All of our current product candidates are subject to regulation in the United States by the FDA as biological products, or biologics. The FDA subjects biologics to extensive pre- and post-market regulation. The Public Health Service Act, or PHSA as amended by the Patient Protection and Affordable Care Act, or Affordable Care Act, and the Biologics Price Competition and Innovation Act, or BPCIA, govern the regulatory pathway for biosimilar products. In addition, other federal and state statutes and regulations, govern, among other things, the research, development, testing, manufacture, storage, recordkeeping, approval, labeling, promotion and marketing, distribution, post-approval monitoring and reporting, sampling and import and export of biologics. Failure to comply with applicable U.S. requirements may subject a company to a variety of administrative or judicial sanctions, such as FDA refusal to approve a pending biologics license application, or BLA, withdrawal of approvals, clinical holds, untitled and warning letters, product recalls, product seizures, total or partial suspension of production or distribution, injunctions, fines, civil penalties or criminal penalties.

Under the BPCIA, a biologic may be demonstrated to be "biosimilar" if data show that the product is "highly similar" to a reference product. This is demonstrated through extensive analytical studies, animal studies (if deemed necessary), and clinical trials in a sensitive patient population to confirm that "residual uncertainties" do not have clinically meaningful impact. Developing the data to satisfy FDA pre-market approval requirements typically takes many years and the actual time required may vary substantially based upon the type, complexity and novelty of the product or disease.

Similar to innovator products, FDA requires submission of an Investigational New Drug application, or IND, prior to testing biosimilar investigational products in humans. The IND is composed of the clinical protocol and other documentation such as non-clinical and CMC data to assure the safe conduct of the study. The sponsor submits an IND to FDA to place the IND into effect. A 30-day waiting period after the submission of the IND is required prior to the commencement of clinical testing. If during the 30-day waiting period the FDA does not raise concerns or questions related to the safety of the proposed clinical trials or other data submitted, the clinical trial may begin.

Prior to IND submission of a biosimilar candidate, if previous human data are not available or if the analytical data warrant, *in vivo* preclinical tests may be required to assess the safety of the product. Other preclinical tests include laboratory evaluation of product chemistry, formulation and *in vitro* functional testing. This preclinical work is highly dependent on the development of robust analytical tests. An IND must become effective before United States clinical trials may begin.

Clinical trials for biosimilars involve the administration of the new investigational product to healthy volunteers or patients with the condition under investigation, all under the supervision of a qualified investigator. Clinical trials must be conducted: (i) in compliance with federal regulations; (ii) in compliance with good clinical practice, or GCP, an international standard meant to protect the rights and health of patients and to define the roles of clinical trial sponsors, administrators and monitors; as well as (iii) under protocols detailing the objectives of the trial, the parameters to be used in monitoring safety and the effectiveness criteria to be evaluated. Each protocol involving testing on U.S. patients and subsequent protocol amendments must be submitted to the FDA as part of the IND.

The FDA may order the temporary or permanent discontinuation of a clinical trial at any time or impose other sanctions if, among other things, it believes that the clinical trial either is not being conducted in accordance with FDA requirements or presents an unreasonable and significant risk to the clinical trial patients. The study protocol and informed consent information for patients in clinical trials must also be submitted to an institutional review board, or IRB, for approval. An IRB may also require the clinical trial at the site to be halted, either temporarily or permanently, for failure to comply with the IRB's requirements or may impose other conditions. The study sponsor may also suspend a clinical trial at any time on various grounds, including a determination that the subjects or patients are being exposed to an unacceptable health risk.

Clinical trials for biosimilar development are typically conducted in two sequential phases. In Phase 1, the investigational product is initially compared to the reference product by dosing healthy human subjects or patients to assess PK, pharmacological actions, and safety. In the case of some products for severe or life-threatening diseases, such as cancer treatments, initial human testing may be conducted in the intended patient population. A Phase 3 clinical trial is then undertaken to obtain additional information about clinical efficacy and safety, typically at geographically dispersed clinical trial sites. These Phase 3 clinical trials are intended to demonstrate that any residual uncertainty about biosimilarity which may exist after conducting prior trials does not have clinical impact in light of the totality of the evidence for the product candidate. Well-designed and well-conducted trials conducted outside of the United States in accordance with GCP may also be acceptable to the FDA in support of product licensing if the FDA is able to validate the data from the study through an onsite inspection, if necessary. Other clinical study designs may be acceptable to regulators if justified.

After successful completion of the required clinical testing in accordance with all applicable regulatory requirements, detailed information regarding the investigational product is prepared and submitted to the FDA in the form of a BLA requesting approval to market the product for one or more of the reference product's indications. FDA review and approval of the BLA is required before marketing of the product may begin in the United States. The BLA must include the results of all preclinical, clinical and other testing and a detailed compilation of data relating to the product's pharmacology and CMC and must demonstrate the safety, purity and potency of the product based on these results. The cost of preparing and submitting a BLA is substantial. Under Biosimilar User Fee Act of 2012, or BsUFA, the sponsor must submit initial and annual biological product development fees, an application fee at the time of submission of the BLA and establishment and product fees if the product is approved. These fees are typically increased annually and will total several million dollars over the product's market life.

The FDA has 60 days from its receipt of a BLA to determine whether the application will be accepted for filing based on the agency's threshold determination that it is sufficiently complete to permit substantive review. Once the submission is accepted for filing, the FDA begins an in-depth review. The FDA has agreed to certain performance goals in the review of biosimilar BLAs. The FDA's stated goal for 2016 is to review 85% of original biosimilar biologic applications within ten months from the receipt date of the application. Although the FDA can meet its user fee performance goals, the review process is often extended by requests for additional information or clarification. The FDA reviews a biosimilar BLA to determine, among other things, whether the product candidate has no clinically meaningful differences from the reference product, and the manufacturing process and facility meet standards designed to assure the product candidate's continued safety, purity and potency. Before approving a BLA, the FDA will typically inspect one or more clinical sites to assure compliance with GCP. Additionally, the FDA will inspect the facility or the facilities at which the product candidate is manufactured. The FDA will not approve the product candidate unless it verifies compliance with cGMP and the BLA contains adequate data that provide substantial evidence that the product candidate is comparable to the reference product.

After the FDA evaluates the BLA and the manufacturing facilities, it issues either an approval letter or a complete response letter. A complete response letter generally outlines the deficiencies in the submission and may require substantial additional testing or information in order for the FDA to reconsider the application. If, or when, those deficiencies have been addressed to the FDA's satisfaction, the FDA will issue an approval letter. For 2016, the FDA has committed to reviewing 85% of resubmissions of biosimilar BLAs within six months of receipt. FDA approval is never guaranteed, and the FDA will not approve a BLA if applicable regulatory criteria are not satisfied.

The approval of our product candidates may be significantly more limited than requested in the application, including limitations on the dosage forms (if multiple forms are filed) or the indications for use, which could restrict the commercial value of the product. In addition, as a condition of BLA approval, the FDA may require a risk evaluation and mitigation strategy, or REMS, minimize any risk associated with the product. REMS can include medication guides, communication plans for healthcare professionals and Elements To Assure Safe Use, or ETASU. ETASU can include, but are not limited to, special training or certification for prescribing or dispensing, dispensing only under certain circumstances, special monitoring and the use of patient registries. The requirement for a REMS can materially affect the potential market and profitability of the product. Moreover, product approval may require, as a condition of approval, post-approval testing and surveillance to monitor the product's safety or efficacy. Once granted, product approvals may be withdrawn if compliance with regulatory standards is not maintained or problems are identified following initial marketing.

Abbreviated Licensure Pathway of Biologics as Biosimilar or Interchangeable under 351(k)

The BPCIA amended the PHSA by adding section 351(k) that created an abbreviated approval pathway for biologics shown to be highly similar to an FDA-licensed reference biologic. Under the BPCIA, a biologic may be demonstrated to be "biosimilar" if data show that, among other things, the product is "highly similar" to a reference product. This is

demonstrated through extensive analytical studies, animal studies (when deemed necessary), and clinical trials in a sensitive patient population to confirm that "residual uncertainties" do not have clinically meaningful impact. Developing the data to satisfy FDA pre-market approval requirements typically takes many years and the actual time required may vary substantially based upon the type, complexity and novelty of the product or disease. In addition, an application submitted under the 351(k) pathway must include information demonstrating that the proposed biosimilar product and reference product have the same route of administration, dosage form and the strength and the biosimilar product utilizes the same mechanism of action for the condition(s) of use approved in the proposed labeling to the extent the mechanism(s) of action are known for the reference product.

Biosimilarity under the BPCIA means that the biologic is highly similar to the reference product notwithstanding minor differences in clinically inactive components and that there are no clinically meaningful differences between the biologic and the reference product in terms of the safety, purity and potency of the product. Therefore, in addition to a complete CMC data submission as required for a 351(a) BLA, an application submitted under section 351(k) is required to include data supporting the analytical similarity of the proposed biosimilar product to the reference product.

If a manufacturer intends to use data from an animal study or a clinical study comparing its proposed biosimilar product to a non-U.S.-licensed product to address, in part, the requirements under section 351(k), the sponsor must provide adequate data or information to scientifically justify the relevance of these comparative data to an assessment of biosimilarity and establish an acceptable bridge to the U.S.-licensed reference product. The type of bridging data that is required includes data from analytical studies that directly compare all three products, *i.e.*, the proposed biosimilar product, the U.S.-licensed reference product and the non-U.S.-licensed comparator product, and is likely to also include bridging clinical PK and/or PD study data for all three products. FDA makes a final determination about the adequacy of the scientific justification and bridge during the review of the application.

Moreover, the BPCIA provides for a designation of "interchangeability" between the reference and biosimilar products, whereby the biosimilar may be substituted for the reference product without the intervention of the healthcare provider who prescribed the reference product. After the assessment of biosimilarity, the higher standard of interchangeability must be demonstrated by information sufficient to show that the proposed product is expected to produce the same clinical result as the reference product in any given patient and for a product that is administered more than once to an individual, the risk to the patient in terms of safety or diminished efficacy of alternating or switching between the biosimilar and the reference product is no greater than the risk of using the reference product without such alternation or switch. FDA's implementation of the 351(k) approval pathway is still evolving, and the acceptance for filing and review of a 351(k) application is subject to the same refusals to file or approve that are described above for 351(a) BLAs. In addition, the FDA may accept a 351(k) application for filing but deny approval on the basis that the sponsor has not demonstrated biosimilarity, in which case the sponsor may choose to conduct further analytical, preclinical or clinical trials to demonstrate such biosimilarity under section 351(k) or submit a BLA for licensure as a new biologic under section 351(a).

The timing of final FDA approval of a biosimilar for commercial distribution depends on a variety of factors, including whether the manufacturer of the reference product is entitled to one or more statutory exclusivity periods, during which time the FDA is prohibited from approving, or accepting applications for, any product candidates that are purportedly biosimilar to the reference product. The FDA cannot approve a biosimilar application for 12 years from the date of first licensure of the reference product. Additionally, a biosimilar product sponsor may not submit an application under the 351(k) pathway for four years from the date of first licensure of the reference product, "First licensure" typically means the initial date the particular product at issue was licensed in the United States. Date of first licensure does not include the date of licensure of (and a new period of exclusivity is not available for) a biological product if the licensure is for a supplement for the biological product or for a subsequent application by the same sponsor or manufacturer of the biological product (or licensor, predecessor in interest, or other related entity) for a change (not including a modification to the structure of the biological product) that results in a new indication, route of administration, dosing schedule, dosage form, delivery system, delivery device or strength, or for a modification to the structure of the biological product that does not result in a change in safety, purity, or potency. Therefore, one must determine whether a subsequent application for a new product includes a modification to the structure of a previously licensed product that results in a change in safety, purity, or potency to assess whether the licensure of the new product is a first licensure that triggers its own period of exclusivity. Whether a subsequent application, if approved, warrants exclusivity as the "first licensure" of a biological product is determined on a case-by-case basis with data submitted by the sponsor.

A reference product may also be entitled to exclusivity under other statutory provisions. For example, a reference product designated as an orphan drug may be entitled to seven years of exclusivity, in which case no product that is biosimilar to the reference product may be approved until either the end of the 12-year biologic reference product exclusivity period or

the end of the seven year orphan drug exclusivity period, whichever occurs later. In certain circumstances, a regulatory exclusivity period can extend beyond the life of a patent and thus block §351(k) applications from being approved on or after the patent expiration date. In addition, the FDA may under certain circumstances extend the exclusivity period for the reference product by an additional six months if the FDA requests, and the manufacturer undertakes, studies on the effect of its product in children, a so-called pediatric extension.

The first biosimilar product determined to be interchangeable with a reference product for any condition of use is also entitled to a period of exclusivity, during which time the FDA may not determine that another product is interchangeable with the reference product for any condition of use. This exclusivity period extends until the earlier of: (i) one year after the first commercial marketing of the first interchangeable product; (ii) 18 months after resolution of a patent infringement suit against the applicant that submitted the application for the first approved interchangeable product, based on a final court decision regarding all of the patents in the litigation or dismissal of the litigation with or without prejudice; (iii) 42 months after approval of the first interchangeable product, if a patent infringement suit instituted against the applicant that submitted the application for the first interchangeable product is still ongoing; or (iv) 18 months after approval of the first interchangeable product if the applicant that submitted the application for the first interchangeable product has not been sued for patent infringement.

Post-Approval Regulatory Requirements

Once a BLA is approved, a product will be subject to continuing post-approval regulatory requirements relating to recordkeeping, periodic reporting, testing requirements, manufacturing, distribution, advertising and promotion and reporting of adverse experiences with the product. For instance, the FDA closely regulates post-approval marketing and promotion concerning communications for direct-to-consumer advertising, off-label promotion, industry-sponsored scientific and educational activities and promotional activities involving the internet. Failure to comply with these regulations can result in significant penalties, including the issuance of untitled and warning letters directing a company to correct deviations from FDA standards, a requirement that future advertising and promotional materials be pre-cleared by the FDA and federal and state civil and criminal investigations and prosecutions.

Biologics, like other pharmaceutical products, may be marketed only for the approved indications and in accordance with the provisions of the approved conditions specified in the BLA. After approval, changes to the information submitted in the BLA may require submission to the FDA. Generally, there are three types of filing mechanisms to the approved application: prior approval supplement, changes being effected supplement and annual report. The filing type is dictated by the assessment of the potential to impact quality, efficacy and/or safety and each holds specific review and/or approval timelines. For example, a new indication would be filed as a prior approval supplement because assessment of efficacy and safety would be necessary with the targeted 10 month review clock. Whereas, a minor change in manufacturing process, which, among other things, would not affect specification limits or modifications in potency, sensitivity, specificity or purity of the product, may be filed in the BLA annual report, and can be implemented once the company's quality unit has approved the use through appropriate documentation. There are also continuing annual user fee requirements for any marketed products and the establishments at which such products are manufactured, as well as new application fees for supplemental applications with clinical data.

Adverse event reporting and submission of periodic safety reports are required following FDA approval of a BLA. As a condition of the BLA approval, the FDA also may require additional information that may include additional analytical or clinical studies and a REMS or other conditions to assess and/or monitor the quality and safety of the approved product.

All manufacturing operations, including manufacturing, testing, packaging, labeling, storage and distribution procedures must continue to meet cGMP requirements after approval. Product manufacturers and certain of their subcontractors are also required to register their establishments with the FDA and certain state agencies. Registration with the FDA subjects entities to periodic inspections by the FDA, during which the agency inspects manufacturing facilities to assess compliance with cGMP. Accordingly, manufacturers must have dedicated resources in the areas of production, quality control, and quality assurance to maintain compliance with cGMP.

Discovery of previously unknown problems with a product, including adverse events of unanticipated severity or frequency or with manufacturing processes or failure to comply with regulatory requirements, may result in the withdrawal of the product approval, product recall or marketing restrictions through labeling changes or product removals. A change in the safety profile may result in revisions to the approved labeling to update safety information; post-market studies or clinical trials to assess new safety risks; or distribution restrictions or other requirements under a REMS program.

Other U.S. Healthcare Laws and Compliance Requirements

Although we currently do not have any products on the market, if our product candidates are approved and we begin commercialization, we will be subject to additional healthcare regulation and enforcement by the federal government and

the states and foreign governments in which we conduct our business. These laws include, without limitation, state and federal anti-kickback, fraud and abuse, false claims, privacy and security and physician sunshine laws and regulations.

The federal Anti-Kickback Statute prohibits, among other things, any person or entity from knowingly and willfully offering, soliciting, receiving or providing remuneration, directly or indirectly, in cash or in kind, either to induce or award the referral of an individual, for an item or service or the purchasing, recommending or ordering of a good or service, for which payment may be made under federal healthcare programs such as the Medicare and Medicaid programs. The Anti-Kickback Statute is subject to evolving interpretations. In the past, the government has enforced the Anti-Kickback Statute to reach large settlements with healthcare companies based on, in certain cases, sham consulting and other financial arrangements with physicians. Further, the Affordable Care Act, among other things, amends the intent requirement of the federal Anti-Kickback Statute and the criminal statute governing healthcare fraud statutes. A person or entity no longer needs to have actual knowledge of these statutes or specific intent to violate them in order to commit a violation. In addition, the Affordable Care Act provides that the government may assert that a claim including items or services resulting from a violation of the federal Anti-Kickback Statute constitutes a false or fraudulent claim for purposes of the federal False Claims Act or federal civil money penalties statute. The majority of states also have anti-kickback laws that establish similar prohibitions and in some cases may apply to items or services reimbursed by any third-party payor, including commercial insurers.

Additionally, the federal false claims and civil monetary penalties laws, including the civil False Claims Act prohibit, among other things, knowingly presenting or causing the presentation of a false, fictitious or fraudulent claim for payment to the U.S. government, or making a false statement to avoid, decrease, or conceal an obligation to pay money to the federal government. Actions under the False Claims Act may be brought by the Attorney General or as a qui tam action by a private individual in the name of the government. Violations of the False Claims Act can result in very significant monetary penalties and treble damages. The federal government has used the False Claims Act, and the accompanying threat of significant liability, in its investigation and prosecution of pharmaceutical and biotechnology companies throughout the country, for example, in connection with the promotion of products for unapproved uses and other illegal sales and marketing practices. The government has obtained multi-million and multi-billion dollar settlements under the False Claims Act in addition to individual criminal convictions under applicable criminal statutes. Given the significant size of actual and potential settlements, it is expected that the government will continue to devote substantial resources to investigating healthcare providers' and manufacturers' compliance with applicable fraud and abuse laws.

The federal Health Insurance Portability and Accountability Act of 1996, or HIPAA, created additional federal criminal statutes that prohibit, among other actions, knowingly and willfully executing, or attempting to execute, a scheme to defraud any healthcare benefit program, including private third-party payors, knowingly and willfully embezzling or stealing from a healthcare benefit program, willfully obstructing a criminal investigation of a healthcare offense, and knowingly and willfully falsifying, concealing or covering up a material fact or making any materially false, fictitious or fraudulent statement in connection with the delivery of or payment for healthcare benefits, items or services.

HIPAA, as amended by the Health Information Technology for Economic and Clinical Health Act, or HITECH, and its implementing regulations, imposes requirements regarding the privacy and security of individually identifiable health information, including mandatory contractual terms, for covered entities, or certain healthcare providers, health plans, and healthcare clearinghouses, and their business associates. HITECH also increased the civil and criminal penalties that may be imposed against covered entities and business associates, and gave state attorneys general new authority to file civil actions for damages or injunctions in federal courts to enforce HIPAA.

In addition, there has been a recent trend of increased federal and state regulation of payments made to physicians and other healthcare providers. The Affordable Care Act, among other things, via the Physician Payments Sunshine Act, imposes new reporting requirements on certain manufacturers of drugs, devices, biologics, and medical supplies for which payment is available under Medicare, Medicaid, or the Children's Health Insurance Program, with specific exceptions, for payments made by them to physicians and teaching hospitals, as well as ownership and investment interests held by physicians and their immediate family members. Failure to submit required information to the Centers for Medicare & Medicaid Services, or CMS, may result in civil monetary penalties of up to an aggregate of \$150,000 per year (or up to an aggregate of \$1.0 million per year for "knowing failures"), for all payments, transfers of value or ownership or investment interests that are not timely, accurately and completely reported in an annual submission. Such manufacturers must submit reports by the 90th day of each subsequent calendar year.

Certain states also mandate implementation of commercial compliance programs, impose restrictions on pharmaceutical manufacturer marketing practices and/or require the tracking and reporting of gifts, compensation and other remuneration to physicians. Additionally, analogous state and foreign laws and regulations, such as state anti-kickback and false claims

laws, may apply to sales or marketing arrangements and claims involving healthcare items or services reimbursed by nongovernmental third party payors, including private insurers. State laws may also apply that require pharmaceutical companies to comply with the pharmaceutical industry's voluntary compliance guidelines and the relevant compliance guidance promulgated by the federal government, as well as state and foreign laws governing the privacy and security of health information, many of which differ from each other in significant ways and often are not preempted by HIPAA, thus complicating compliance efforts.

The shifting commercial compliance environment and the need to build and maintain robust systems to comply with different compliance and/or reporting requirements in multiple jurisdictions increase the possibility that a healthcare company may violate one or more of the requirements. If our operations are found to be in violation of any of such laws or any other governmental regulations that apply to us, we may be subject to penalties, including, without limitation, civil and criminal penalties, damages, fines, the curtailment or restructuring of our operations, exclusion from participation in federal and state healthcare programs and imprisonment, any of which could adversely affect our ability to operate our business and our financial results.

Healthcare Reform

The Affordable Care Act has had, and is expected to continue to have, a significant impact on the healthcare industry. The Affordable Care Act was designed to expand coverage for the uninsured while at the same time containing overall healthcare costs. With regard to pharmaceutical products, among other things, the Affordable Care Act expanded and increased industry rebates for drugs covered under Medicaid programs and made changes to the coverage requirements under the Medicare prescription drug benefit. We continue to evaluate the effect that the Affordable Care Act has on our business. In the coming years, additional legislative and regulatory changes could be made to governmental health programs that could significantly impact pharmaceutical companies and the success of our product candidates. The Affordable Care Act, as well as other federal, state and foreign healthcare reform measures that have been and may be adopted in the future, could harm our future revenues.

International Regulation

In addition to regulations in the United States, foreign regulations also govern clinical trials, commercial sales and distribution of product candidates within their jurisdiction. The regulatory approval process varies from country to country and the time to approval may be longer or shorter than that required for FDA approval. In the European Union, the approval of a biosimilar for marketing is based on an opinion issued by the European Medicines Agency and a decision issued by the European Commission. However, substitution of a biosimilar for the innovator is a decision that is made at the local (national) level on a country-by-country basis. Additionally, a number of European countries do not permit the automatic substitution of biosimilars for the reference product. Many countries, such as Canada, Japan, China, Brazil, Mexico and Korea, also have their own legislation outlining a regulatory pathway for the development and approval of biosimilars. In some cases, countries have either adopted European guidance or are following guidance issued by the World Health Organization. Although similarities are apparent across these various regulatory guidances, there is also the potential for additional country-specific requirements.

Pharmaceutical Coverage, Pricing and Reimbursement

In the United States and other countries, sales of any products for which we receive regulatory approval for commercial sale will depend in part on the availability of coverage and reimbursement from third-party payors, including government health administrative authorities, managed care providers, private health insurers and other organizations. Third-party payors are increasingly examining the medical necessity and cost effectiveness of medical products and services in addition to safety and efficacy and, accordingly, significant uncertainty exists as to the reimbursement status of newly approved therapeutics. A payor's decision to provide coverage for a drug product does not imply that an adequate reimbursement rate will be approved. Further, one payor's determination to provide coverage for a drug product does not assure that other payors will also provide coverage for the drug product. Adequate third-party reimbursement may not be available to enable us to maintain price levels sufficient to realize an appropriate return on our investment in product development. In addition, the U.S. government, state legislatures and foreign governments have continued implementing cost-containment programs, including price controls, restrictions on coverage and reimbursement and requirements for substitution of generic products. Adoption of price controls and cost-containment measures and adoption of more restrictive policies in jurisdictions with existing controls and measures could further limit our net revenue and results. Decreases in third-party reimbursement for our product candidates or a decision by a third-party payor to not cover our product candidates could reduce physician utilization of our products and have a material adverse effect on our sales, results of operations and financial condition.

Employees

As of December 31, 2015, we had 80 full-time employees, 46 of whom were primarily engaged in research and development activities and 18 of whom had an M.D. or Ph.D. degree. None of our employees are represented by a labor union or covered by a collective bargaining agreement.

Facilities

We occupy approximately 48,000 square feet of office and laboratory space in Cranbury, New Jersey, under a lease that expires in June 30, 2021. Additionally, we have entered into a lease for approximately 82,000 square feet of occupiable office and laboratory space in Cranbury, New Jersey, with lease payments expected to commence in March 2016 and expire in March 2026.

Legal Proceedings

From time to time, we may become involved in litigation relating to claims arising from the ordinary course of business. Our management believes that there are currently no claims or actions pending against us, the ultimate disposition of which would have a material adverse effect on our results of operations, financial condition or cash flows.

MANAGEMENT

Executive Officers and Directors

The following table sets forth information regarding our executive officers and directors as of December 31, 2015:

Name	Age	Position(s)
Executive Officers		
Pankaj Mohan, Ph.D.	51	Chairman, President and Chief Executive Officer
Kenneth M. Bahrt, M.D.	62	Chief Medical Officer
Kogan Bao, Ph.D.	46	Vice President, Analytical Sciences
Scott A. Gangloff	42	Senior Vice President, Development & Manufacturing
Lawrence A. Kenyon	50	Chief Financial Officer and Secretary
Stephen J. McAndrew, Ph.D.	61	Senior Vice President, Business Strategy & Development
Elizabeth A. Yamashita	55	Vice President, Regulatory Affairs
Non-Employee Directors		
Todd C. Brady, M.D., Ph.D. ⁽¹⁾⁽³⁾	44	Director
Scott Canute ⁽²⁾	55	Director
Albert D. Dyrness ⁽²⁾⁽³⁾	53	Director
Donald J. Griffith	67	Director
Kurt J. Hilzinger ⁽¹⁾⁽²⁾	55	Director
Robin Smith Hoke ⁽¹⁾⁽³⁾	53	Director

- (1) Member of the Audit Committee
- (2) Member of the Compensation Committee
- (3) Member of the Nominating and Corporate Governance Committee

Executive Officers

Pankaj Mohan, Ph.D. Dr. Mohan has served as our Chairman, President and Chief Executive Officer since January 2011. Prior to founding our company, from May 2008 to December 2010, Dr. Mohan served as head of Business Operations and Portfolio Management of Biologics Process and Product Development at Bristol-Myers Squibb Company, a biopharmaceutical company. From June 2006 to May 2008, Dr. Mohan served as a Director of Bioprocess Engineering at Genentech, Inc., a biotechnology company. Prior to that, from May 1996 to May 2006, Dr. Mohan served as a senior manager at Eli Lilly and Company, a pharmaceutical company. From May 1993 to April 1996, Dr. Mohan served as Assistant Professor (Lecturer/Fellow) at the Advanced Centre for Biochemical Engineering, University College London, London, United Kingdom. From August 1987 to December 1989, Dr. Mohan served as a Scientific Officer for the Department of Atomic Energy for the Government of India. Dr. Mohan has served as a member of the board of directors of Sonnet Biotherapeutics, Inc., a privately held biopharmaceutical company, since its inception in April 2015. Dr. Mohan received a Ph.D. in Biochemical Engineering from the School of Chemical Engineering, University of Birmingham, Birmingham, United Kingdom, a Masters in Financial Management from Middlesex University Business School, London, United Kingdom, an Executive Management Program (AMP) from Fuqua School of Business at Duke University and a Bachelor of Chemical Engineering from the Indian Institute of Technology in Roorkee, India.

We believe Dr. Mohan's experience on our board of directors and as our Chairman, President and Chief Executive Officer, as well as his experience in the biopharmaceutical industry, qualifies him to serve on our board of directors.

Kenneth M. Bahrt, M.D. Dr. Bahrt has served as our Chief Medical Officer since June 2015. Prior to joining us, from February 2014 to May 2015, Dr. Bahrt served as the Vice President of U.S. Medical Affairs at NPS Pharmaceuticals, Inc., a biopharmaceutical company. From August 2011 to January 2014, Dr. Bahrt served as Senior Vice President and Chief Medical Officer at Savient Pharmaceuticals, Inc., a biopharmaceutical company. Prior to that, from September 2009 to August 2011, Dr. Bahrt served as the Therapeutic Head of Immunology Medical Affairs at Genentech, Inc. From July 2007 to September 2009, Dr. Bahrt served as the Global Medical Director for Immunology at Hoffman-La Roche, a Swiss healthcare company. Prior to this, Dr. Bahrt held positions of increasing responsibility at Bristol Myers Squibb, Pfizer, and

Daiichi. Prior to joining the pharmaceutical industry, Dr. Bahrt was in clinical practice. Dr. Bahrt is a board-certified Internist and Rheumatologist and a Fellow of the American College of Rheumatology. Dr. Bahrt received an M.D. from Hahnemann University and a Bachelor's degree in Biology from Muhlenberg College.

Kogan Bao, Ph.D. Dr. Bao has served as our Vice President of Analytical Sciences since January 2016. Prior to joining us, Dr. Bao served as Analytical Similarity Leader at Amgen, Inc. from October 2013 to January 2016 with responsibility for the overall analytical strategy and plan for drug development of several biosimilar assets as well as serving as the primary author for regulatory submissions. From December 2003 to June 2013, Dr. Bao served in roles of increasing responsibility at Allergan, Inc., establishing the pre-formulation and biophysical characterization groups to support early-and late-stage development of biologics as well as providing support for commercial products. Prior to that, Dr. Bao served as a post-doctoral fellow at Stanford University in the Department of Biochemistry from 2002 to 2003. Dr. Bao received a Ph.D. in Biochemistry and Biophysics from Oregon State University and an A.B. from the University of California,

Scott A. Gangloff. Mr. Gangloff has served as our Senior Vice President, Development & Manufacturing since January 2015. Prior to that, Mr. Gangloff served as our Vice President of Process Development and Manufacturing from January 2013 to January 2015 and as our Executive Director of Process Development and Manufacturing from May 2011 to January 2013. Prior to joining us, Mr. Gangloff held various process engineering and manufacturing roles at Bristol-Myers Squibb Company, serving as Associate Director, Process Scale-up from January 2006 to May 2011 with oversight of clinical manufacturing, Manager of Biologics Scale-Up Facility from June 2004 to January 2006, and roles of increasing responsibility in cell culture development and process engineering from July 1998 to June 2004. From January 1996 to July 1998, Mr. Gangloff served as Process Engineer at Jacobs Engineering Group Inc., a technical professional services firm. Mr. Gangloff received a Masters of Engineering in Chemical Engineering from Lehigh University and a Bachelor of Chemical Engineering from Villanova University.

Lawrence A. Kenyon. Mr. Kenyon has served as our Chief Financial Officer and Secretary since September 2015. Prior to that, from February 2014 to September 2015, Mr. Kenyon served as the Chief Financial Officer of Arno Therapeutics, Inc., a biopharmaceutical company focused on the development of therapeutics for cancer and other life threatening diseases, and also as Chief Operating Officer from July 2014 to September 2015. From December 2011 to March 2013, Mr. Kenyon served as the Interim President & Chief Executive Officer, Chief Financial Officer and Secretary of Tamir Biotechnology, Inc., a publicly held biopharmaceutical company engaged in the development of oncology and anti-infective therapeutics. Prior to that, from December 2008 to July 2010, Mr. Kenyon was the Executive Vice President, Finance and, commencing in March 2009, the Chief Financial Officer of, Par Pharmaceutical Companies, Inc., a publicly held generic and branded specialty pharmaceutical company, or Par. Prior to joining Par, Mr. Kenyon was the Chief Financial Officer and Secretary of Alfacell Corporation, or Alfacell, from January 2007 through February 2009 and also served at various times during this period as Alfacell's Executive Vice President, Chief Operating Officer and President, and was a member of Alfacell's board of directors from November 2007 to April 2009. Prior to joining Alfacell, Mr. Kenyon served as the Executive Vice President, Chief Financial Officer and Corporate Secretary at NeoPharm, Inc., a publicly traded biopharmaceutical company, from 2000 to 2006. Mr. Kenyon received a B.A. in Accounting from the University of Wisconsin-Whitewater and is a Certified Public Accountant in Illinois.

Stephen J. McAndrew, Ph.D. Dr. McAndrew served initially as our Vice President of Business Development from February 2012 through March 2014, and as our Senior Vice President, Business Strategy & Development since March 2014. Prior to joining us, from March 2011 to February 2012, Dr. McAndrew served as the President of SJM BioPharm Consulting, a biopharmaceutical consulting company. From December 2009 to March 2011, Dr. McAndrew served as Vice President of Scientific Commercial Development at Taconic Biosciences, Inc., a contract research and biotechnology company, and from August 2007 to December 2009, Dr. McAndrew served as Vice President of Business Development at Caliper Life Sciences, Inc., a biotechnology company. Prior to that, from January 2004 to August 2007, Dr. McAndrew served as Vice President of Business Development at Xenogen Biosciences Corporation, a provider of in vivo drug discovery services. From January 2001 to December 2003, Dr. McAndrew served as Vice President of Pharmaceutical Business Development at Lexicon Pharmaceuticals, Inc., a biopharmaceutical drug-development company. Prior to that, from March 1993 to December 2001, Dr. McAndrew served in various positions of increasing responsibility at Bristol-Myers Squibb Company, including as Director of Biotechnology Licensing. Dr. McAndrew received a Ph.D. in Cellular and Molecular Biology from Ohio University, an M.S. in Molecular Genetics from the State University of New York at Albany and a B.S. from the State University of New York at Oswego.

Elizabeth A. Yamashita. Ms. Yamashita has served as our Vice President of Regulatory Affairs since July 2015 and, prior to that, our Vice President of Regulatory and Clinical Affairs since April 2014. Prior to joining us, from October 2012 to January 2014, Ms. Yamashita served as Group Vice President of Regulatory Affairs at Savient Pharmaceuticals, Inc., a

biopharmaceutical company, and also as Vice President, CMC Regulatory from June 2011 to October 2012. From May 2006 to June 2011, Ms. Yamashita served as Principal Fellow, CMC Regulatory Strategy and Vice President Regulatory CMC & Operations at ImClone Systems Inc., a biopharmaceutical company. Prior to that, Ms. Yamashita was employed by Bristol-Myers Squibb Company for 24 years and from 2000 to 2006, Ms. Yamashita served as the Group Director of Global Regulatory Sciences, CMC. Ms. Yamashita received a Regulatory Affairs Certification from the Regulatory Affairs Professional Society and a B.S. in Chemistry from the University of Rochester.

Non-Employee Directors

Todd C. Brady, M.D., Ph.D. Dr. Brady has served as a member of our board of directors since September 2014. Since January 2012, Dr. Brady also has served as Chief Executive Officer and President of Aldeyra Therapeutics, Inc., a biotechnology company, and has served as a member of its board of directors since September 2005. Dr. Brady further has served as a member of the board of directors of Evoke Pharma, Inc., a biotechnology company, since June 2007, of Novadigm Therapeutics, Inc., a biotechnology company, since December 2007 and of Cantex Pharmaceuticals, Inc., a biotechnology company, since August 2006. From 2004 to 2013, Dr. Brady served as an entrepreneur-in-residence and principal at Domain Associates, a healthcare venture capital firm. Dr. Brady received an M.D. from Duke University Medical School, a Ph.D. from Duke University Graduate School and an A.B. from Dartmouth College.

We believe Dr. Brady's experience as a Chief Executive Officer in a biotechnology company and as a director of publicly traded biotechnology companies, as well as his experience as a venture capital investor in the industry, qualifies him to serve on our board of directors.

Scott Canute. Mr. Canute has served as a member of our board of directors since October 2011. Mr. Canute also has served as a member of the technical advisory board of Moderna Therapeutics, Inc., a physical therapy company, since October 2012, and further has served as a member of the board of directors of Proteon Therapeutics, Inc., a biopharmaceutical company, since July 2015 and Flexion Therapeutics, Inc., a pharmaceutical company, since March 2015. In addition, Mr. Canute formerly served as a member of the board of directors of Inspiration Biopharmaceuticals, Inc., a biopharmaceutical company, from September 2012 to September 2013 and AlloCure Inc., a biotechnology company, from October 2012 to October 2014. From March 2010 to July 2011, Mr. Canute served as the President of Global Manufacturing and Corporate Operations of Genzyme Corporation, a biotechnology company. Prior to that, from 1982 to 2007, Mr. Canute served in various management positions at Eli Lilly and Company, including as the President of Global Manufacturing Operations from 2004 to 2007, Vice President of Global Manufacturing from 2001 to 2004, Vice President of Global Pharmaceutical Manufacturing from 1999 to 2001 and General Manager of European Manufacturing Operations from 1998 to 1999. Mr. Canute received an M.B.A. from Harvard Business School and a B.S. in Chemical Engineering from the University of Michigan.

We believe Mr. Canute's experience in the biopharmaceutical industry, as well as his experience as a member on the boards of director of multiple companies in the industry, qualifies him to serve on our board of directors.

Albert D. Dyrness. Mr. Dyrness has served as a member of our board of directors since December 2015. Mr. Dyrness co-founded ADVENT Engineering Services, Inc., a privately held engineering consulting firm, in 1988, and since that time, he has served in several roles, most recently as the Principal and Managing Director of the Life Sciences Division since 1995. Mr. Dryness is a recognized industry leader in bio-process engineering, with expertise in upstream, downstream and fill-finish processes, member of the American Society of Mechanical Engineers Bioprocess Equipment Standard, or ASME BPE, and has served as the Vice Chairperson for the ASME BPE System Design subcommittee since 2013. Mr. Dyrness is also an Industrial Advisory Board Member of the University of the Pacific's Bioengineering program. Mr. Dyrness received an M.S. in Mechanical Engineering from Massachusetts Institute of Technology and holds professional engineering licenses in the State of California for both Chemical Engineering and Mechanical Engineering.

We believe Mr. Dyrness' experience in the design, start-up and qualification of systems, and equipment used for producing and developing biologics and pharmaceutics, as well as in the life sciences sector, qualifies him to serve on our board of directors.

Donald J. Griffith. Mr. Griffith has served as a member of our board of directors since August 2011. Mr. Griffith served as our Chief Financial Officer and Secretary from May 2011 through September 2015. Mr. Griffith currently serves as Chairman, President, Chief Executive Officer and Treasurer of Sonnet Biotherapeutics, Inc. and also serves as a member of its board of directors. From May 1991 to May 2011, Mr. Griffith served as a partner at Stolz & Griffith, LLC, a New Jersey accounting firm. Prior to that, Mr. Griffith was employed in the accounting group at Exxon Mobil Corporation. Mr. Griffith is an active member of the New Jersey Society of CPAs and the American Institute of CPAs. Mr. Griffith received an M.B.A. from Fairleigh Dickenson University and a B.B.A. in Business Administration from the City College of New York.

We believe Mr. Griffith's experience on our board of directors, as well as his extensive financial and accounting experience, qualifies him to serve on our board of directors.

Kurt J. Hilzinger. Mr. Hilzinger has served as a member of our board of directors since December 2015. Since 2007, Mr. Hilzinger has served as a partner at Court Square Capital Partners L.P., an independent private equity firm, where he is responsible for investing in the healthcare sector. Since July 2003, Mr. Hilzinger also has served in various capacities as a member of the board of directors at Humana, Inc., a managed care company, including serving as Lead Director from August 2010 to January 2014, and as Chairman since January 2014. In addition, Mr. Hilzinger also has served several roles at AmerisourceBergen Corporation, a healthcare company, including as a member of the board of directors from March 2004 to November 2007, as the President and Chief Operating Officer from October 2002 to November 2007 and as the Executive Vice President and Chief Operating Officer from August 2001 to October 2002. Mr. Hilzinger also serves on the Visiting Committee at the Ross School of Business at the University of Michigan. Mr. Hilzinger received a B.B.A. in Accounting from the University of Michigan and is a Certified Public Accountant in Michigan.

We believe Mr. Hilzinger's experience and financial expertise in the healthcare sector qualifies him to serve on our board of directors.

Robin Smith Hoke. Ms. Hoke has served as a member of our board of directors since December 2015. Since July 2012, Ms. Hoke has been acting as a consultant providing pharmaceutical and healthcare advisory services to multi-national, mid-tier and emerging companies and private equity firms. Previously, Ms. Hoke served in various roles at Ricerca Biosciences, LLC, a preclinical contract research organization, including as a member of the board of directors from February 2013 to December 2015, as well as the Chair of the board of directors and the Interim Chief Executive Officer from August 2013 to February 2014. Prior to that, Ms. Hoke served as the President for GeneralMedix Pharmaceuticals, Inc., a privately held specialty injectable company, from July 2007 to June 2012. Ms. Hoke also served as the Senior Vice President, Global Business Development and Strategic Initiatives, Generic Pharmaceuticals, at Cardinal Health, Inc., a healthcare company, from 2005 to 2007, and served as General Counsel from 2001 to 2005. Previously, Ms. Hoke was inhouse counsel at Abbott Laboratories, a healthcare company, and a business partner at the law firm of Kegler, Brown, Hill & Ritter Co., LP. Ms. Hoke received a B.S. from Michigan State University and a J.D. from Thomas M. Cooley Law School.

We believe Ms. Hoke's healthcare and pharmaceutical experience qualifies her to serve on our board of directors.

Family Relationships

There are no family relationships among our directors and executive officers.

Board Composition

Our board of directors will consist of seven members upon the closing of this offering. In accordance with our amended and restated certificate of incorporation to be filed in connection with this offering, immediately prior to this offering, our board of directors will be divided into three classes. At each annual general meeting of stockholders, the successors to directors whose terms then expire will be elected to serve from the time of election and qualification until the third annual meeting following election. Our directors will be divided among the three classes as follows:

- The Class I directors will be Albert D. Dyrness, Kurt J. Hilzinger and Robin Smith Hoke, and their terms will expire at the annual meeting of stockholders to be held in 2017;
- The Class II directors will be Todd C. Brady, M.D., Ph.D. and Donald J. Griffith, and their terms will expire at the annual meeting of stockholders to be held in 2018; and
- The Class III directors will be Scott Canute and Pankaj Mohan, Ph.D., and their terms will expire at the annual meeting of stockholders to be held in 2019.

We expect that any additional directorships resulting from an increase in the number of directors will be distributed among the three classes so that, as nearly as possible, each class will consist of one-third of the directors. The division of our board of directors into three classes with staggered three-year terms may delay or prevent a change of our management or a change in control.

Director Independence

Under the listing requirements and rules of the NASDAQ Global Market, or NASDAQ, independent directors must comprise a majority of our board of directors as a listed company within one year of the closing of this offering.

Our board of directors has undertaken a review of its composition, the composition of its committees and the independence of each director. Based upon information requested from and provided by each director concerning his/her background,

employment and affiliations, including family relationships, our board of directors has determined that Todd C. Brady, M.D., Ph.D., Scott Canute, Albert D. Dyrness, Kurt J. Hilzinger and Robin Smith Hoke do not have any relationships that would interfere with the exercise of independent judgment in carrying out the responsibilities of a director and that each of these directors is "independent" as that term is defined under the applicable rules and regulations of the SEC and the listing requirements and rules of the NASDAQ. In making this determination, our board of directors considered the current and prior relationships that each non-employee director has with our company and all other facts and circumstances our board of directors deemed relevant in determining their independence, including the beneficial ownership of our capital stock by each non-employee director.

Board Committees

Our board of directors has established an audit committee, a compensation committee and a nominating and corporate governance committee, as well as other committees, which currently include a finance committee, culture committee and a science and technology committee. Our board of directors may establish other committees to facilitate the management of our business. The composition and functions of each committee are described below. Members serve on these committees until their resignation or until otherwise determined by our board of directors.

Audit Committee

Our audit committee consists of Todd C. Brady, M.D., Ph.D., Kurt J. Hilzinger and Robin Smith Hoke. Our board of directors has determined that Todd C. Brady, M.D., Ph.D., Kurt J. Hilzinger and Robin Smith Hoke are independent under the NASDAQ listing standards and Rule 10A-3(b)(1) of the Exchange Act. The chair of our audit committee is Kurt J. Hilzinger. Our board of directors has determined that Kurt J. Hilzinger is an "audit committee financial expert" within the meaning of SEC regulations. Our board of directors has also determined that each member of our audit committee can read and understand fundamental financial statements in accordance with applicable requirements. In arriving at these determinations, the board of directors has examined each audit committee member's scope of experience and the nature of their employment in the corporate finance sector.

The primary purpose of the audit committee is to discharge the responsibilities of our board of directors with respect to our accounting, financial and other reporting and internal control practices and to oversee our independent registered accounting firm. Specific responsibilities of our audit committee include:

- selecting a qualified firm to serve as the independent registered public accounting firm to audit our consolidated financial statements;
- helping to ensure the independence and performance of the independent registered public accounting firm;
- discussing the scope and results of the audit with the independent registered public accounting firm, and reviewing, with management and the independent accountants, our interim and year-end operating results;
- developing procedures for employees to submit concerns anonymously about questionable accounting or audit matters;
- reviewing our policies on risk assessment and risk management;
- reviewing related party transactions;
- obtaining and reviewing a report by the independent registered public accounting firm at least annually, that
 describes our internal quality-control procedures, any material issues with such procedures, and any steps
 taken to deal with such issues when required by applicable law; and
- approving (or, as permitted, pre-approving) all audit and all permissible non-audit services, other than de minimis non-audit services, to be performed by the independent registered public accounting firm.

Compensation Committee

Our compensation committee consists of Scott Canute, Albert D. Dyrness and Kurt J. Hilzinger. Our board of directors has determined that Scott Canute, Albert D. Dyrness and Kurt J. Hilzinger are independent under the NASDAQ listing standards, are "non-employee directors" as defined in Rule 16b-3 promulgated under the Exchange Act and are "outside directors" as that term is defined in Section 162(m) of the Internal Revenue Code of 1986, as amended, or Section 162(m). The chair of our compensation committee is Scott Canute.

The primary purpose of our compensation committee is to discharge the responsibilities of our board of directors to oversee our compensation policies, plans and programs and to review and determine the compensation to be paid to our executive officers, directors and other senior management, as appropriate. Specific responsibilities of our compensation committee include:

- reviewing and approving, or recommending that our board of directors approve, the compensation of our executive officers;
- reviewing and recommending to our board of directors the compensation of our directors;
- reviewing and approving, or recommending that our board of directors approve, the terms of compensatory arrangements with our executive officers;
- administering our stock and equity incentive plans;
- selecting independent compensation consultants and assessing whether there are any conflicts of interest with any of the committees compensation advisers;
- reviewing and approving, or recommending that our board of directors approve, incentive compensation and
 equity plans, severance agreements, change in control protections and any other compensatory arrangements
 for our executive officers and other senior management, as appropriate; and
- reviewing and establishing general policies relating to compensation and benefits of our employees and reviewing our overall compensation philosophy.

Nominating and Corporate Governance Committee

Our nominating and corporate governance committee consists of Todd C. Brady, M.D., Ph.D., Albert D. Dyrness and Robin Smith Hoke. The chair of our nominating and corporate governance committee is Robin Smith Hoke. Each member of the nominating and corporate governance committee is independent within the meaning of applicable listing standards, is a non-employee director and is free from any relationship that would interfere with the exercise of his or her independent judgment, as determined by the board of directors in accordance with the applicable NASDAQ listing

Specific responsibilities of our nominating and corporate governance committee include:

- identifying, evaluating and selecting, or recommending that our board of directors approve, nominees for election to our board of directors;
- evaluating the performance of our board of directors and of individual directors;
- considering and making recommendations to our board of directors regarding the composition of the committees of the board of directors;
- reviewing developments in corporate governance practices;
- evaluating the adequacy of our corporate governance practices and reporting;
- reviewing management succession plans;
- developing and making recommendations to our board of directors regarding corporate governance guidelines and matters; and
- overseeing an annual evaluation of the board of directors' performance.

As noted above, our board may from time to time establish other committees for the benefit of the company. Currently, our board has established a culture committee, a finance committee and a science and technology committee. We believe these committees, which may have members from both our board of directors and management, will foster an exchange of ideas and create a culture of collaboration that leverages the skills of our directors, management and employees.

Compensation Committee Interlocks and Insider Participation

None of the members of the compensation committee is currently, or has been at any time, one of our officers or employees. None of our executive officers currently serves, or has served during the last year, as a member of the board of directors or compensation committee of any entity that has one or more executive officers serving as a member of our board of directors or compensation committee other than Dr. Mohan, who currently serves on the board of directors of Sonnet Biotherapeutics, Inc., or Sonnet, for which Mr. Griffith, another member of our board of directors, also serves as chairman, president, chief executive officer and treasurer. For more information regarding Sonnet, please see "Certain Relationships and Related Party Transactions — Sonnet Biotherapeutics, Inc."

Code of Business Conduct and Ethics

We have adopted a code of business conduct and ethics that applies to all of our employees and officers (including our principal executive officer, principal financial officer and principal accounting officer or controller), or persons performing similar functions and agents and representatives, including directors and consultants. The full text of our code of business

conduct and ethics will be posted on our website at www.oncobiologics.com. We intend to disclose future amendments to certain provisions of our code of business conduct and ethics, or waivers of such provisions applicable to any principal executive officer, principal financial officer, principal accounting officer or controller, or persons performing similar functions, and our directors, on our website identified above.

Non-Employee Director Compensation

We have entered into director engagement letters with two of our non-employee directors, Dr. Brady and Mr. Canute. Pursuant to Dr. Brady's director engagement letter, he is eligible to receive a fee of \$100,000 per year for his service paid in cash and a grant of PSUs with respect to 200,000 shares of our common stock. The PSUs have not been granted to Dr. Brady. Pursuant to Mr. Canute's director engagement letter, he is eligible to receive a fee of \$100,000 per year for his service paid in cash. Mr. Canute also received a grant of 400,000 shares of restricted stock on December 19, 2011, which were subject to a four year vesting schedule and he is eligible to receive equity awards as determined by the board of directors in its sole discretion. In June 2014, we conducted a buyback of certain of our outstanding securities (see "Certain Relationships and Related Party Transactions—June 2014 Buyback"). Specifically, we offered restricted stockholders \$0.50 per share to forfeit their restricted shares payable in the form of a 0% promissory note due December 31, 2015, as amended. In connection therewith, Mr. Canute received a 0% promissory note with an aggregate principal amount of \$200,000 due December 31, 2015, as amended, in exchange for his 400,000 shares of restricted stock. All outstanding amounts have been paid in full. Although we do not have a written policy, we generally reimburse our directors for their reasonable out-of-pocket expenses incurred in attending board of directors meetings and with respect to our business.

The following table sets forth information concerning the compensation earned for service on our board of directors by our directors during the year ended September 30, 2015. Mr. Griffith, our former Chief Financial Officer and Secretary is also a director, but he did not receive any additional compensation for service as a director during the year ended September 30, 2015. Dr. Mohan, our President and Chief Executive Officer, is also Chairman of our board but he does not receive any additional compensation for service as a director. Dr. Mohan's compensation as an executive officer is set forth below under "Executive Compensation — Summary Compensation Table."

Name	Fees Earned or Paid in Cash ⁽¹⁾ (\$)	Total (\$)
Todd C. Brady, M.D., Ph.D.	100,000	100,000
Scott Canute	100,000	100,000

⁽¹⁾ Represents the annual cash fees per terms of director engagement letters

Non-Employee Director Compensation Policy

We intend to adopt a non-employee director compensation policy pursuant to which our non-employee directors will be eligible to receive compensation for service on our board of directors and committees of our board of directors.

Equity Compensation

Initial Grant

Each new non-employee director who joins our board of directors will be granted a non-statutory stock option to purchase 25,000 shares of common stock under the 2015 Plan, vesting annually over three years from the grant date, subject to continued service as a director through the applicable vesting date.

Annual Grant

On the date of each annual meeting of our stockholders, each current non-employee director will be granted an annual non-statutory stock option to purchase 15,000 shares of common stock under the 2015 Plan, vesting on the first anniversary of the grant date, subject to continued service as a director though the applicable vesting date. The exercise price per share of each stock option granted under the non-employee director compensation policy will be the fair market value of a share of our common stock, as determined in accordance with the 2015 Plan, on the date of the option grant. Each stock option will have a term of ten years from the date of grant, subject to earlier termination in connection with a termination of the non-employee director's continuous service with us.

Cash Compensation

Each non-employee director will receive an annual cash retainer of \$35,000 for serving on our board of directors. The chairperson of our board of directors will receive an additional annual cash retainer of \$30,000.

The chairperson and members of the three principal standing committees of our board of directors will be entitled to the following annual cash retainers:

Board Committee	Chairperson Fee	Member Fee
Audit Committee	\$ 15,000	\$ 7,500
Compensation Committee	10,000	5,000
Nominating and Corporate Governance Committee	8,000	4,000

All annual cash compensation amounts will be payable in equal quarterly installments in arrears, on the last day of each fiscal quarter for which the service occurred, pro-rated based on the days served in the applicable fiscal quarter.

EXECUTIVE COMPENSATION

Our named executive officers for the year ended September 30, 2015, which consist of our principal executive officer and our two other most highly compensated executive officers, are:

- Pankaj Mohan, Ph.D., our Chairman, President and Chief Executive Officer;
- Kenneth M. Bahrt, M.D., our Chief Medical Officer; and
- Elizabeth A. Yamashita, our Vice President, Regulatory Affairs.

Summary Compensation Table

The following table provides information regarding the compensation earned by our named executive officers for the year ended September 30, 2015.

Name and Principal Position	Year	Salary (\$)	Bonus (\$) ⁽¹⁾	Equity Plan Awards (\$) ⁽²⁾	All Other Compensation (\$) ⁽³⁾	Total (\$)
Pankaj Mohan, Ph.D. Chairman, President and Chief Executive						
Officer	2015	290,004		_	29,839	319,843
Kenneth M. Bahrt, M.D. ⁽⁴⁾ Chief Medical Officer	2015	65,542		644,000	6,881	716,423
Elizabeth A. Yamashita Vice President, Regulatory Affairs	2015	235,746		_	15,809	251,555

- (1) Discretionary bonus amounts for fiscal year ended September 30, 2015 have not yet been determined. Bonus amounts potentially payable are discussed below under "— Narrative to Summary Compensation Table Annual Base Salary and Bonus."
- (2) In accordance with SEC rules, this column reflects the aggregate grant date fair value of the performance stock unit, or PSU, awards granted during fiscal year 2015 computed in accordance with Financial Accounting Standard Board Accounting Standards Codification Topic 718, or ASC 718, for stock-based compensation transactions. The PSU awards are a form of stock appreciation right that originally were settled in cash. Assumptions used in the calculation of these amounts are included in Note 4 to our consolidated financial statements appearing elsewhere in this prospectus. These amounts do not reflect the actual economic value that would be realized by the named executive officer upon the exercise of the PSUs. Effective December 31, 2015, Dr. Bahrt's and Ms. Yamashita's PSUs were cancelled, and they each received a grant of restricted stock units issued under the 2015 Plan.
- (3) Amounts in this column reflect the payment of term life and disability insurance premiums, along with 401(k) matching contributions. All of these benefits are provided to the named executive officers on the same terms as provided to all of our regular full-time employees. For more information regarding these benefits, see below under "— Perquisites, Health, Welfare and Retirement Benefits." We also reimbursed Dr. Mohan for cell phone expenses. Dr. Mohan is also entitled to a car allowance of up to \$8,400 pursuant to his employment letter, however, such amounts were not paid nor accrued in the year ended September 30, 2015.
- (4) Dr. Bahrt joined our company in June 2015

Narrative to Summary Compensation Table

We review compensation annually for all employees, including our named executive officers. In setting executive base salaries and bonuses and granting equity incentive awards, we consider compensation for comparable positions in the market, the historical compensation levels of our executives, individual performance as compared to our expectations and objectives, our desire to motivate our employees to achieve short- and long-term results that are in the best interests of our stockholders and a long-term commitment to our company.

The independent members of our board of directors have historically determined our executive officers' compensation, and typically review and discuss management's proposed compensation with the chief executive officer for all executives other than the chief executive officer. Based on those discussions and its discretion, the independent members of the board of directors then recommend, and the full board then approves, the compensation for each executive officer.

Annual Base Salary and Bonus

The compensation of our named executive officers is generally determined and approved at the beginning of each calendar year or, if later, in connection with the commencement of employment of the executive. The base salaries are reviewed periodically by our board of directors.

We seek to motivate and reward our executives for achievements relative to our corporate goals and expectations for each fiscal year. From time to time our board of directors or compensation committee may approve discretionary bonuses for our named executive officers based on individual performance, company performance or as otherwise determined appropriate.

Long-Term Incentives

Our equity-based incentive awards are designed to align our interests and the interests of our stockholders with those of our employees and consultants, including our named executive officers.

Our 2011 Stock Incentive Plan, or our 2011 Plan, authorizes us to make grants to eligible recipients of non-qualified stock options, incentive stock options, restricted stock awards, restricted stock unit awards and equity or cash-based performance awards. All of our awards outstanding under this plan are in the form of PSUs. We initially granted restricted stock and stock options under the 2011 Plan to employees, subject to time-based vesting restrictions. We converted to using PSUs subject to both time-based and performance-based vesting as the primary incentive for long-term compensation to our named executive officers because they are able to profit from performance stock units only if our stock price increases and the performance conditions are achieved. PSUs are a form of stock appreciation right, generally subject to a four year time-based vesting schedule with 50% vesting on each of the third and fourth anniversaries of the recipient's hire date, and grant the award recipient the right to receive, upon exercise, a cash amount equal to the difference between the fair market value of a share of our common stock and the exercise price of the PSU, less applicable withholding taxes. PSUs may only be exercised during their 10-year term on or following the achievement of time-based vesting and specified performance conditions, including the occurrence of a change in control, the closing of this offering, or, subject to the discretion of our board of directors, our achieving an enterprise value of at least \$400 million. In addition, PSUs may be subject to additional acceleration of time-based vesting restrictions upon certain termination and change in control events. In November 2015, we commenced a tender-offer to all the holders of our outstanding PSUs except PSUs held by our officers and one director to amend the terms of such outstanding awards to increase the exercise price to an amount equal to the fair market value of a share of our common stock on the date of grant of the PSU, remove the right to be paid dividend equivalents and provide for settlement in shares of our common stock or cash, at our discretion. We closed the tender-offer on December 21, 2015. Effective December 31, 2015, Dr. Bahrt's and Ms. Yamashita's PSUs were cancelled, and Dr. Mohan, Dr. Bahrt and Ms. Yamashita each received a grant of restricted stock units, or RSUs, issued under the 2015 Plan, All of the RSUs are subject to performance-based vesting such that the RSUs will vest upon the first to occur of a change in control of the company and the date that is six months following the effective date of the registration statement of which this prospectus forms a part, in each case subject to the recipient's continued service with us through such event. In addition, certain of the RSUs are subject to additional timebased vesting restrictions that will be satisfied if the executive remains in continuous service with us through certain dates as follows: (i) 50% of the RSUs granted to Dr. Mohan will satisfy the time-based vesting restrictions on each of the first and second anniversaries of the grant date and (ii) 50% of the RSUs granted to Dr. Bahrt and Ms. Yamashita will satisfy the time-based vesting restrictions on each of the third and fourth anniversaries of their original hire dates.

We may grant equity awards at such times as our board of directors determines appropriate. Our executives generally are awarded an initial grant in connection with their commencement of employment. Additional grants may occur periodically in order to specifically incentivize executives with respect to achieving certain corporate goals or to reward executives for exceptional performance.

Agreements with our Named Executive Officers

Below are written descriptions of our employment agreement with Dr. Mohan and offer letter agreements with our other named executive officers.

Dr. Mohan. We entered into an employment agreement with Dr. Mohan for full-time services in January 2011 setting forth the terms of his employment as Chief Executive Officer. Pursuant to the agreement, Dr. Mohan was entitled to an initial annual base salary of \$230.000 upon his commencement of full time services with us and an increased annual base salary of \$290,000 after the initiation of revenue, an annual discretionary bonus equal to the greater of 8% of EBITDA during a fiscal year or 33% of the total incentive pay pool allocated to company employees and directors with respect to a fiscal year, and reimbursement for an automobile down payment, allowance and expenses. We also pay all premiums associated with Dr. Mohan's health insurance. Dr. Mohan is currently employed by and performing services for us on a full-time basis. The term of Dr. Mohan's employment agreement will continue until the earlier of a sale of the company. the company's initial public offering of stock, or another similar liquidity event with respect to the company. Dr. Mohan's employment agreement provides that we may terminate Dr. Mohan's employment with us and the term of the agreement at any time (i) with cause, (ii) without cause on thirty (30) days written notice, or (iii) due to Dr. Mohan's disability upon written notice to Dr. Mohan. Dr. Mohan may terminate his employment with us and the term of the employment agreement at any time (i) with good reason upon written notice, or (ii) without good reason upon thirty (30) days written notice. Dr. Mohan's employment with us and his employment agreement will automatically terminate upon his death or the end of the term of the agreement. Dr. Mohan is additionally entitled to certain severance and change in control benefits pursuant to his agreement, the terms of which are described below under "- Potential Payments upon Termination or Change of Control."

We are currently negotiating a revised employment agreement with Dr. Mohan, which we expect to enter into prior to completion of this offering.

Dr. Bahrt. We entered into an employment offer letter agreement with Dr. Bahrt for full-time services in June 2015 setting forth the terms of his employment. Pursuant to the agreement, Dr. Bahrt was entitled to an initial annual base salary of \$250,000, a target annual discretionary bonus equal to \$100,000 and the grant of 100,000 PSUs that vest over a four year period subject to Dr. Bahrt's continued service with us. Dr. Bahrt is currently employed by and performing services for us on a full-time basis. Dr. Bahrt is employed by us on an at-will basis. His employment offer letter agreement does not have a specified term and his employment may be terminated by us or Dr. Bahrt at any time, with or without cause. Dr. Bahrt is not entitled to any additional compensation or benefits under his employment offer letter agreement upon termination of his employment or a change of control. Dr. Bahrt's PSUs were cancelled in December 2015, and he was awarded a grant of RSUs pursuant to the terms of the 2015 Plan.

Ms. Yamashita. We entered into an employment offer letter agreement with Ms. Yamashita for full-time services in March 2014 setting forth the terms of her employment. Pursuant to the agreement, Ms. Yamashita was entitled to an initial annual base salary of \$230,000, which was increased to \$235,000 in August 2015, a target annual discretionary bonus equal to 50% of her annual base salary in the event that sufficient revenue was generated and the grant of 150,000 PSUs that vest over a four year period subject to Ms. Yamashita's continued service with us. Ms. Yamashita is currently employed by and performing services for us on a full-time basis. Ms. Yamashita is employed by us on an at-will basis. Her employment offer letter agreement does not have a specified term and her employment may be terminated by us or Ms. Yamashita at any time, with or without cause. Ms. Yamashita is not entitled to any additional compensation or benefits under her employment offer letter agreement upon termination of her employment or a change of control. Ms. Yamashita's PSUs were cancelled in December 2015, and she was awarded a grant of RSUs pursuant to the terms of the 2015 Plan.

Potential Payments upon Termination or Change of Control

Regardless of the manner in which a named executive officer's service terminates, the named executive officer is entitled to receive amounts earned during his or her term of service, including salary and unused vacation pay.

Pursuant to Dr. Mohan's employment agreement, if he is terminated without cause, due to death or disability, if he resigns with good reason or upon expiration of the initial term following notice by us that the term will not be extended, subject to his execution of an effective release and waiver of claims in favor of us, he is entitled to continued payment of his base salary for the greater of the remainder of the term or 12 months following his termination and a pro-rated annual bonus for the calendar year of termination paid when annual bonuses are paid to other executives with respect to the calendar year, subject to his execution of a separation agreement with an effective release of claims in favor of us and his continued compliance with certain restrictive covenants set forth in his employment agreement.

For purposes of Dr. Mohan's agreement:

- "cause" generally means, (i) embezzlement, theft, misappropriation or conversion, or attempted embezzlement, theft, misappropriation or conversion, by Dr. Mohan of any of our or our subsidiaries' property, funds or business opportunities, (ii) any breach by Dr. Mohan of his restrictive covenants in the agreement, (iii) any breach by Dr. Mohan of any other material provision of the agreement that is not cured, to the extent susceptible to cure, within 14 days after we have given written notice to the executive describing such breach; (iv) continued failure or refusal by Dr. Mohan to perform any reasonable directive of our board or the duties of his employment under the agreement that continues for a period of 14 days following notice from our board to Dr. Mohan; (v) any act by Dr. Mohan constituting a felony (or its equivalent in any non-United States jurisdiction) or otherwise involving theft, fraud, dishonesty, misrepresentation or moral turpitude; (vi) conviction of, or plea of nolo contendere (or a similar plea) to, or the failure of Dr. Mohan to contest his prosecution for, any other criminal offense; (vii) any material violation of any law, rule or regulation relating in any way to our business or activities, or other law that is violated during the course of Dr. Mohan's performance of services for us; (viii) gross negligence or willful misconduct on the part of the executive in the performance of his duties as our employee, officer or director that is not cured, to the extent susceptible to cure, within 14 days after we have given written notice to the executive describing such gross negligence or willful misconduct; or (ix) Dr. Mohan's breach of duty of loyalty to us or any of our subsidiaries.
- "disability" means a condition entitling Dr. Mohan to benefits under our long term disability plan, policy or arrangement in which Dr. Mohan participates, but if no such plan, policy or arrangement is then maintained by us and applicable to Dr. Mohan, "disability" means Dr. Mohan's inability to perform, with or without reasonable

- accommodation, his duties under his employment agreement due to a mental or physical condition that can be expected to result in death or that can be expected to last (or has already lasted) for a continuous period of 90 days or more, or for an aggregate of 180 days in any 365 consecutive day period, as determined by the board in its good faith discretion.
- "good reason" means the occurrence, without Dr. Mohan's consent, of any of the following events, other than in connection with a termination of his employment for cause or due to disability: (i) a reduction in his rate of base salary under the employment agreement; (ii) an action by us resulting in a diminution in his titles, authority, duties or responsibilities; or (iii) a breach by us of his employment agreement; provided, however, that none of the events described in this sentence will constitute good reason unless and until (1) Dr. Mohan reasonably determines in good faith that a good reason condition has occurred, (2) Dr. Mohan first notifies us in writing describing in reasonable detail the condition that constitutes good reason within 30 days of its occurrence, (3) we fail to cure the condition within 30 days after our receipt of written notice, and Dr. Mohan has cooperated in good faith with our efforts to cure the condition, (4) notwithstanding our efforts, the good reason condition continues to exist and (5) Dr. Mohan terminates his employment within 30 days after the end of the 30-day cure period

Dr. Bahrt and Ms. Yamashita are not entitled to any termination or change in control compensation pursuant to their offer letter agreements with us.

Each of our named executive officers holds RSUs under the 2015 Plan that provide for acceleration of vesting of the timebased vesting conditions upon certain change in control transactions. A description of the termination and change in control provisions in the 2015 Plan and RSU agreements is provided below under "— Equity Benefit Plans."

Outstanding Equity Awards at Fiscal Year-End.

The following table sets forth certain information regarding equity awards granted to our named executive officers that remain outstanding as of September 30, 2015.

		Equity Awards ⁽¹⁾			
	Grant Date	Number of Securities Underlying Unexercised PSUs Exercisable (#)	Equity Incentive Plan Awards: Number of Securities Underlying Unexercised Unearned PSUs (#)	Exercise Price (\$)	Expiration Date
Pankaj Mohan, Ph.D.					_
Kenneth M. Bahrt, M.D.	6/22/2015	100,000 ⁽²⁾	_	1.00	6/22/2025
Elizabeth A. Yamashita	6/30/2015	168,000 ⁽³⁾	_	1.00	6/30/2024

- (1) All of the outstanding equity awards as of September 30, 2015 are PSUs that were granted under and subject to the terms of the 2011 Stock Incentive Plan, described below under "— Equity Benefit Plans." None of our named executive officers held any other stock awards at the end of 2015. Except as otherwise indicated, each PSU award is subject to performance-based and time-based vesting, subject to the executive's continuous service with us through the time-based vesting dates and the potential vesting acceleration of the time-based vesting conditions upon a change in control and certain terminations of employment, as described above under "— Narrative to Summary Compensation Table" and below under "Equity Benefit Plans 2011 Stock Incentive Plan." Effective December 31, 2015, all such outstanding PSUs were cancelled, and our named executive officers received grants of RSUs issued under the 2015 Plan.
- (2) As of September 30, 2015, these PSUs were subject to both time-based and performance-based vesting conditions: the time-based vesting restrictions will lapse with respect to 50% of the PSUs on June 22, 2018 and 50% of the PSUs on June 22, 2019, subject to Dr. Bahrt's continuous service with us through such date. In addition, 100% of the PSUs may not be exercised unless and until there is a change in control, an initial public offering of our stock or our achieving an enterprise value of at least \$400 million, subject to the discretion of the board of directors, within the term of the PSU. Effective December 31, 2015, Dr. Bahrt's PSUs were cancelled and forfeited, and he received a grant of RSUs issued under the 2015 Plan, subject to both performance and time-based vesting. The RSUs will satisfy the performance-based vesting restrictions upon the first to occur of a change in control of the company and the date that is six months following the effective date of the registration statement of which this prospectus forms a part, in each case subject to Dr. Bahrt's continued service with us through such event. Of these RSUs, 50% will satisfy the time-based vesting restrictions on each of June 22, 2018 and 2019, subject to Dr. Bahrt's continuous service with us through such dates; provided that 100% will satisfy the time-based vesting restrictions upon the occurrence of a change in control, subject to Dr. Bahrt's continuous service with us through such date.

(3) As of September 30, 2015, these PSUs were subject to both time-based and performance-based vesting conditions: the time-based vesting restrictions will lapse with respect to 50% of the PSUs on April 7, 2017 and 50% of the PSUs on April 7, 2018, subject to Ms. Yamashita's continuous service with us through such date. In addition, 100% of the PSUs may not be exercised unless and until there is a change in control, an initial public offering of our stock or our achieving an enterprise value of at least \$400 million, subject to the discretion of the board of directors, within the term of the PSU. Effective December 31, 2015, Ms. Yamashita's PSUs were cancelled and forfeited, and she received a grant of RSUs issued under the 2015 Plan, subject to both performance and time-based vesting. The RSUs will satisfy the performance-based vesting restrictions upon the first to occur of a change in control of the company and the date that is six months following the effective date of the registration statement of which this prospectus forms a part, in each case subject to Ms. Yamashita's continued service with us through such event. Of these RSUs, 50% will satisfy the time-based vesting restrictions on each of April 7, 2017 and 2018, subject to Ms. Yamashita's continued service with us through such dates; provided that 100% will satisfy the time-based vesting restrictions upon the occurrence of a change in control, subject to Ms. Yamashita's continuous service with us through such date.

Option Exercises and Stock Vested

Our named executive officers did not exercise any stock option or PSUs during the fiscal year ended September 30, 2015.

Option Repricings, Modifications and Cancellations

We did not engage in any repricings or other modifications or cancellations to any of our named executive officers' outstanding equity awards during the year ended September 30, 2015. In November, 2015, we commenced a tender-offer to all the holders of our outstanding PSUs except our officers and one director to amend the terms of such outstanding awards to increase the exercise price to an amount equal to the fair market value of a share of our common stock on the date of grant of the PSU, remove the right to be paid dividend equivalents and provide for settlement in shares of our common stock or cash, at our discretion. We closed the tender-offer on December 21, 2015. Effective December 31, 2015, Dr. Bahrt's and Ms. Yamashita's PSUs were cancelled and forfeited, and they each received a grant of restricted stock units issued under the 2015 Plan subject to the vesting conditions described above under "— Outstanding Equity Awards at Fiscal Year-end."

Perquisites, Health, Welfare and Retirement Benefits

Our named executive officers are eligible to participate in our employee benefit plans, including our medical, dental, vision, group life, disability and accidental death and dismemberment insurance plans, in each case on the same basis as all of our other employees, subject to the terms and eligibility requirements of those plans. We pay a portion of the health insurance premiums for all of our employees. We also provide a 401(k) plan to our employees, including our employee named executive officers, as discussed in the section below titled "—401(k) Plan."

We generally do not provide perquisites or personal benefits to our named executive officers, but we do provide an automobile allowance and reimbursement of cell phone expenses for Dr. Mohan. In addition, we pay the premiums for term life insurance and disability insurance for all of our employees, including our employee named executive officers. Our board of directors may elect to adopt qualified or non-qualified benefit plans in the future if it determines that doing so is in our best interests.

401(k) Plan

We maintain a defined contribution employee retirement plan, or 401(k) plan, for our employees. Our named executive officers are eligible to participate in the 401(k) plan on the same basis as our other employees. The 401(k) plan is intended to qualify as a tax-qualified plan under Section 401(k) of the Internal Revenue Code. The 401(k) plan provides that each participant may contribute up to the lesser of 100% of his or her compensation or the statutory limit, which is \$18,000 for calendar year 2015. Participants that are 50 years or older can also make "catch-up" contributions, which in calendar year 2015 may be up to an additional \$5,500 above the statutory limit. We currently make matching contributions up to 3% of base salary into the 401(k) plan on behalf of participants. Participant contributions are held and invested, pursuant to the participant's instructions, by the plan's trustee.

Pension Benefits

Our named executive officers did not participate in, or otherwise receive any benefits under, any defined benefit pension or retirement plan sponsored by us during 2015.

Nonqualified Deferred Compensation

None of our named executive officers participate in or have account balances in nonqualified defined contribution plans or other nonqualified deferred compensation plans maintained by us. Our board of directors may elect to provide our officers

and other employees with non-qualified defined contribution or other nonqualified deferred compensation benefits in the future if it determines that doing so is in our best interests.

Equity Benefit Plans

2015 Equity Incentive Plan

On December 4, 2015 our board of directors adopted, and on December 7, 2015, our stockholders approved, our 2015 Equity Incentive Plan, or the 2015 Plan. The 2015 Plan provides for the grant of statutory stock options within the meaning of Section 422 of the Internal Revenue Code, or the ISOs, to our employees and for the grant of nonstatutory stock options, or NSOs, stock appreciation rights, restricted stock awards, restricted stock unit awards, performance stock awards and other forms of equity compensation to our employees, including officers, directors and consultants. The 2015 Plan also provides for the grant of performance cash awards to our employees, consultants and directors.

Authorized Shares. The maximum number of shares of our common stock that may be issued under the 2015 Plan is 4,300,000 shares. The number of shares of our common stock reserved for issuance under the 2015 Plan will automatically increase on the date that is sixty (60) calendar days following the date of the underwriting agreement for this offering, by an amount of shares of our common stock equal to 3% of the total number of shares of our common stock outstanding on such sixtieth (60th) day. In addition, the number of shares of our common stock reserved for issuance under the 2015 Plan will automatically increase on January 1 of each year, beginning January 1, 2017 and continuing through and including January 1, 2025, by an amount equal to 3% of the total number of shares of our capital stock outstanding on December 31st of the preceding calendar year; or a lesser number of shares determined by our board of directors. The maximum number of shares of our common stock that may be issued upon the exercise of ISOs under the 2015 Plan is 17,000,000. As of December 31, 2015, RSUs representing 3,678,425 shares of our common stock were outstanding under the 2015 Plan and 621,575 shares remained available for grant under the 2015 Plan. No awards have been granted under the 2015 Plan other than RSUs.

Shares issued under the 2015 Plan may be authorized but unissued or reacquired shares of our common stock. Shares subject to stock awards granted under the 2015 Plan that expire or terminate without being exercised in full, or that are paid out in cash rather than in shares, will not reduce the number of shares available for issuance under the 2015 Plan. Additionally, shares issued pursuant to stock awards under the 2015 Plan that we repurchase or that are forfeited, as well as shares used to pay the exercise price of a stock award or to satisfy the tax withholding obligations related to a stock award, become available for future grant under the 2015 Plan.

Plan Administration. Our board of directors, or a duly authorized committee of our board of directors, administers the 2015 Plan. Our board of directors has delegated its authority to administer the 2015 Plan to our compensation committee. Our board of directors may also delegate to one or more of our officers the authority to (1) designate employees (other than officers) to receive specified stock awards and (2) determine the number of shares subject to such stock awards. Under the 2015 Plan, the board of directors has the authority to determine the terms of awards, including recipients, the exercise, purchase or strike price of stock awards, if any, the number of shares subject to each stock award, the fair market value of a share of our common stock, the vesting schedule applicable to the awards, together with any vesting acceleration, the form of consideration, if any, payable upon exercise or settlement of the award and the terms of the award agreements.

Our plan administrator may also modify outstanding awards under the 2015 Plan with the consent of any adversely affected participant. Our plan administrator has the authority to reprice any outstanding option or stock appreciation right, cancel any outstanding stock award in exchange for new stock awards, cash or other consideration or take any other action that is treated as a repricing under generally accepted accounting principles.

Stock Options. ISOs and NSOs are granted pursuant to stock option agreements adopted by the plan administrator. The plan administrator determines the exercise price for stock options, within the terms and conditions of the 2015 Plan, provided that the exercise price of a stock option generally cannot be less than 100% of the fair market value of our common stock on the date of grant. Options granted under the 2015 Plan vest at the rate specified by the plan administrator.

The plan administrator determines the term of stock options granted under the 2015 Plan, up to a maximum of 10 years. Unless the terms of an option holder's stock option agreement provide otherwise, if an option holder's service relationship with us, or any of our affiliates, ceases for any reason other than disability, death or cause, the option holder may generally exercise any vested options for a period of three months following the option holder's cessation of service. The option term may be extended in the event that exercise of the option or sale of the underlying shares following such a termination of

service is prohibited by applicable securities laws or by our insider trading policy. If an option holder's service relationship with us or any of our affiliates ceases due to disability or death, or an option holder dies within a certain period following cessation of service, the option holder or a beneficiary may generally exercise any vested options for a period of 12 months in the event of disability and 18 months in the event of death. Options generally terminate immediately upon the termination of the individual for cause. In no event may an option be exercised beyond the expiration of its term.

The plan administrator will determine acceptable consideration for the purchase of common stock issued upon the exercise of a stock option, which may include the following methods: (1) cash, check, bank draft or money order; (2) a broker-assisted cashless exercise procedure; (3) the tender of shares of our common stock previously owned by the option holder; (4) if the option is a nonstatutory stock option, by a net exercise arrangement; and (5) other legal consideration set forth in the applicable award agreement.

In general, options are not transferable except by will, the laws of descent and distribution, or as otherwise provided by the plan administrator under the 2015 Plan. An option holder may designate a beneficiary, however, who may exercise the option following the option holder's death.

Tax Limitations on Incentive Stock Options. The aggregate fair market value, determined at the time of grant, of our common stock with respect to incentive stock options that are exercisable for the first time by an option holder during any calendar year under all of our stock plans may not exceed \$100,000. Options or portions thereof that exceed such limit will generally be treated as nonstatutory stock options. No incentive stock option may be granted to any person who, at the time of grant, owns or is deemed to own stock possessing more than 10% of our total combined voting power or that of any of our affiliates unless (1) the option exercise price is at least 110% of the fair market value of the stock subject to the option on the date of grant and (2) the term of the incentive stock option does not exceed five years from the date of grant.

Restricted Stock Unit Awards. RSUs are granted pursuant to RSU award agreements adopted by the plan administrator. RSU awards may be granted in consideration for any form of legal consideration that may be acceptable to our board of directors and permissible under applicable law. A restricted stock unit award may be settled by cash, delivery of stock, a combination of cash and stock as deemed appropriate by the plan administrator or in any other form of consideration set forth in the RSU award agreement. Additionally, dividend equivalents may be credited in respect of shares covered by a RSU award. Except as otherwise provided in the applicable award agreement, RSUs that have not vested will be forfeited upon the participant's cessation of continuous service for any reason.

Restricted Stock Awards. Restricted stock awards are granted pursuant to restricted stock award agreements adopted by the plan administrator. A restricted stock award may be awarded in consideration for cash, check, bank draft or money order, past services to us or any other form of legal consideration that may be acceptable to our board of directors and permissible under applicable law. The plan administrator determines the terms and conditions of restricted stock awards, including vesting and forfeiture terms. Common stock acquired under a restricted stock award may, but need not, be subject to a share repurchase option in our favor in accordance with a vesting schedule to be determined by the plan administrator. Rights to acquire shares under a restricted stock award may be transferred only upon such terms and conditions as set by the plan administrator. Except as otherwise provided in the applicable award agreement, restricted stock awards that have not vested will be forfeited upon the participant's cessation of continuous service for any reason.

Stock Appreciation Rights. Stock appreciation rights are granted pursuant to stock appreciation grant agreements adopted by the plan administrator. The plan administrator determines the purchase price or strike price for a stock appreciation right, which generally cannot be less than 100% of the fair market value of our common stock on the date of grant. Upon the exercise of a stock appreciation right, we will pay the participant an amount equal to the product of (1) the excess, if any, of the per share fair market value of our common stock on the date of exercise over the purchase price or strike price and (2) the number of shares of common stock with respect to which the stock appreciation right is exercised. This amount may be paid in shares of our common stock, in cash, in any combination of cash and shares of our common stock or in any other form of consideration, as determined by the plan administrator and set forth in the award agreement. A stock appreciation right granted under the 2015 Plan vests at the rate specified in the stock appreciation right agreement as determined by the plan administrator.

The plan administrator determines the term of stock appreciation rights granted under the 2015 Plan, which may be up to a maximum of 10 years. Unless the terms of a participant's stock appreciation right agreement provides otherwise, if a participant's service relationship with us or any of our affiliates ceases for any reason other than cause, disability or death, the participant may generally exercise any vested stock appreciation right for a period of three months following the cessation of service. The term of the stock appreciation right may be further extended in the event that exercise of the stock appreciation right following such a termination of service is prohibited by applicable securities laws or by our insider trading

policy. If a participant's service relationship with us, or any of our affiliates, ceases due to disability or death, or a participant dies within a certain period following cessation of service, the participant (or, if applicable, a beneficiary) may generally exercise any vested stock appreciation right for a period of 12 months (in the case of disability) or 18 months (in the case of death). Stock appreciation rights generally terminate immediately upon the occurrence of the event giving rise to the termination of the individual for cause. In no event may a stock appreciation right be exercised beyond the expiration of its term.

Section 162(m) limits. Certain limits apply when we make awards under the 2015 Plan that are intended to comply with Section 162(m) of the Code. These limitations are intended to give us the flexibility to grant compensation that will not be subject to the \$1,000,000 annual limitation on the income tax deductibility imposed by Section 162(m) of the Code. In the case of stock options, stock appreciation rights and other stock awards whose value is determined by reference to an increase over an exercise price or strike price of at least 100% of the fair market value of our common stock on the date of grant, such awards will not cover more than 1,500,000 shares of our common stock in any calendar year. Additionally, no participant may be granted in a calendar year a performance stock award covering more than 1,500,000 shares of our common stock or a performance cash award having a maximum value in excess of \$1,500,000 under the 2015 Plan.

Performance Awards. The 2015 Plan permits the grant of performance-based stock and cash awards that may qualify as performance-based compensation that is not subject to the \$1,000,000 limitation on the income tax deductibility imposed by Section 162(m) of the Code. Our compensation committee may structure awards so that the stock or cash will be issued or paid only following the achievement of certain pre-established performance goals during a designated performance period.

Our compensation committee may establish performance goals by selecting from one or more of the following performance criteria: (1) earnings (including earnings per share and net earnings); (2) earnings before interest, taxes and depreciation; (3) earnings before interest, taxes, depreciation and amortization; (4) earnings before interest, taxes, depreciation, amortization and legal settlements; (5) earnings before interest, taxes, depreciation, amortization, legal settlements and other income (expense); (6) earnings before interest, taxes, depreciation, amortization, legal settlements, other income (expense) and stock-based compensation; (7) earnings before interest, taxes, depreciation, amortization, legal settlements, other income (expense), stock-based compensation and changes in deferred revenue; (8) earnings before interest, taxes, depreciation, amortization, legal settlements, other income (expense), stock-based compensation, other non-cash expenses and changes in deferred revenue; (9) total stockholder return; (10) return on equity or average stockholder's equity; (11) return on assets, investment, or capital employed; (12) stock price; (13) margin (including gross margin); (14) income (before or after taxes); (15) operating income; (16) operating income after taxes; (17) pre-tax profit; (18) operating cash flow: (19) sales or revenue targets: (20) increases in revenue or product revenue: (21) expenses and cost reduction goals; (22) improvement in or attainment of working capital levels; (23) economic value added (or an equivalent metric); (24) market share; (25) cash flow; (26) cash flow per share; (27) cash balance; (28) cash burn; (29) cash collections; (30) share price performance; (31) debt reduction; (32) implementation or completion of projects or processes (including, without limitation, clinical trial initiation, clinical trial enrollment and dates, clinical trial results, regulatory filing submissions, regulatory filing acceptances, regulatory or advisory committee interactions, regulatory approvals, new and supplemental indications for existing products, and product supply); (33) stockholders' equity; (34) capital expenditures; (35) debt levels; (36) operating profit or net operating profit; (37) workforce diversity; (38) growth of net income or operating income; (39) billings; (40) bookings; (41) employee retention; (42) initiation of phases of clinical trials and/or studies by specific dates; (43) acquisition of new customers, including institutional accounts; (44) customer retention and/or repeat order rate; (45) number of institutional customer accounts (46) budget management; (47) improvements in sample and test processing times; (48) regulatory milestones; (49) progress of internal research or clinical programs; (50) progress of partnered programs; (51) partner satisfaction; (52) milestones related to samples received and/or tests run; (53) expansion of sales in additional geographies or markets; (54) research progress, including the development of programs; (55) submission to, or approval by, a regulatory body (including, but not limited to the U.S. Food and Drug Administration) of an applicable filing or a product; (56) timely completion of clinical trials; (57) milestones related to samples received and/or tests or panels run; (58) expansion of sales in additional geographies or markets; (59) research progress, including the development of programs; (60) patient samples processed and billed; (61) sample processing operating metrics (including, without limitation, failure rate maximums and reduction of repeat rates); (62) strategic partnerships or transactions (including in-licensing and out-licensing of intellectual property; and (63) and to the extent that an award is not intended to comply with Section 162(m) of the Code, other measures of performance selected by the board.

Our compensation committee may establish performance goals on a company-wide basis, with respect to one or more business units, divisions, affiliates or business segments, and in either absolute terms or relative to the performance of one

or more comparable companies or the performance of one or more relevant indices. Unless otherwise specified by our board of directors (i) in the award agreement at the time the award is granted or (ii) in such other document setting forth the performance goals at the time the performance goals are established, our compensation committee will appropriately make adjustments in the method of calculating the attainment of the performance goals as follows: (1) to exclude restructuring and/or other nonrecurring charges; (2) to exclude exchange rate effects; (3) to exclude the effects of changes to generally accepted accounting principles; (4) to exclude the effects of any statutory adjustments to corporate tax rates; (5) to exclude the effects of any items of an unusual nature or of infrequency of occurrence as determined under generally accepted accounting principles; (6) to exclude the dilutive effects of acquisitions or joint ventures; (7) to assume that any business divested by us achieved performance objectives at targeted levels during the balance of a performance period following such divestiture; (8) to exclude the effect of any change in the outstanding shares of our common stock by reason of any stock dividend or split, stock repurchase, reorganization, recapitalization, merger, consolidation, spin-off, combination or exchange of shares or other similar corporate change or any distributions to common stockholders other than regular cash dividends; (9) to exclude the effects of stock-based compensation and the award of bonuses under our bonus plans; (10) to exclude costs incurred in connection with potential acquisitions or divestitures that are required to be expensed under generally accepted accounting principles; (11) to exclude the goodwill and intangible asset impairment charges that are required to be recorded under generally accepted accounting principles; (12) to exclude the effect of any other unusual, non-recurring gain or loss or other extraordinary item; and (13) to exclude the effects of the timing of acceptance for review and/or approval of submission to the FDA or any other regulatory body. In addition, to the extent set forth in an award agreement, our compensation committee retains the discretion to reduce or eliminate the compensation or economic benefit due upon attainment of the goals. The performance goals may differ from participant to participant and from award to award.

Other Stock Awards. The plan administrator may grant other awards based in whole or in part by reference to our common stock. The plan administrator will set the number of shares under the stock award and all other terms and conditions of such awards.

Changes to Capital Structure. In the event there is a specified type of change in our capital structure, such as a stock split, reverse stock split or recapitalization, appropriate adjustments will be made to (1) the class and maximum number of shares reserved for issuance under the 2015 Plan, (2) the class and maximum number of shares by which the share reserve may increase automatically each year, (3) the class and maximum number of shares that may be issued upon the exercise of incentive stock options, (4) the class and maximum number of shares subject to stock awards that can be granted in a calendar year (as established under the 2015 Plan pursuant to Section 162(m) of the Code) and (5) the class and number of shares and exercise price, strike price or purchase price, if applicable, of all outstanding stock awards.

Corporate Transactions. In the event of certain specified significant corporate transactions, the plan administrator has the discretion to take any of the following actions with respect to stock awards:

- arrange for the assumption, continuation or substitution of a stock award by a surviving or acquiring entity or parent company:
- arrange for the assignment of any reacquisition or repurchase rights held by us to the surviving or acquiring entity or parent company;
- accelerate the vesting of the stock award and provide for its termination prior to the effective time of the corporate transaction;
- arrange for the lapse of any reacquisition or repurchase right held by us;
- cancel or arrange for the cancellation of the stock award in exchange for such cash consideration, if any, as our board of directors may deem appropriate; or
- make a payment equal to the excess of (1) the value of the property the participant would have received upon exercise of the stock award over (2) the exercise price otherwise payable in connection with the stock award.

Our plan administrator is not obligated to treat all stock awards, even those that are of the same type, in the same manner.

Under the 2015 Plan, a corporate transaction is generally the consummation of (1) a sale or other disposition of all or substantially all of our consolidated assets, (2) a sale or other disposition of at least 50% of our outstanding securities, (3) a merger, consolidation or similar transaction following which we are not the surviving corporation or (4) a merger, consolidation or similar transaction following which we are the surviving corporation but the shares of our common stock outstanding immediately prior to such transaction are converted or exchanged into other property by virtue of the

Change in Control. The plan administrator may provide, in an individual award agreement or in any other written agreement between a participant and us that the stock award will be subject to additional acceleration of vesting and exercisability in the event of a change in control. For example, certain of our employees may receive an award agreement that provides for vesting acceleration upon a change in control or upon the individual's termination without cause or resignation for good reason (including a material reduction in the individual's base salary, duties, responsibilities or authority, or a material relocation of the individual's principal place of employment with us) in connection with a change in control. Under the 2015 Plan, a change in control is generally (i) the acquisition by a person or entity of more than 50% of our combined voting power other than by merger, consolidation or similar transaction; (ii) a consummated merger, consolidation or similar transaction immediately after which our stockholders cease to own more than 50% of the combined voting power of the surviving entity; or (iii) a consummated sale, lease or exclusive license or other disposition of all or substantially of our consolidated assets. The RSU award agreements for the named executive officers holding RSUs provide for full vesting of the time-based vesting restrictions upon the occurrence of a change in control subject to their continuous service with us through such event.

Transferability. A participant may not transfer stock awards under the 2015 Plan other than by will, the laws of descent and distribution or as otherwise provided under the 2015 Plan.

Plan Amendment or Termination. Our board of directors has the authority to amend, suspend or terminate the 2015 Plan, provided that such action does not materially impair the existing rights of any participant without such participant's written consent. No incentive stock options may be granted after the tenth anniversary of the date our board of directors adopted the 2015 Plan. No stock awards may be granted under the 2015 Plan while it is suspended or after it is terminated.

2011 Stock Incentive Plan

In October 2011, our board of directors adopted, and in December 2011 our stockholders approved, our 2011 Stock Incentive Plan, or the 2011 Plan. The 2011 Plan provides for the grant of ISOs to our employees, and for the grant of NSOs, restricted stock, restricted stock units and performance stock and cash awards to our officers, directors, employees and consultants

Authorized Shares. We have reserved an aggregate of 4,000,000 shares of our common stock for issuance under the 2011 Plan. As of December 31, 2015, PSUs representing 860,880 shares of our common stock were outstanding under the 2011 Plan at a weighted average base price of \$1.84 per share. Effective as of the effective date of the 2015 Plan, no further awards may be granted under our 2011 Plan, but all outstanding stock awards will continue to be governed by their existing terms.

Administration. Our board of directors, or a committee thereof appointed by our board of directors, administers our 2011 Plan and the awards granted under it. Our board of directors delegated its authority to administer our 2011 Plan to our Chief Executive Officer with respect to awards granted to any employee or service provider other than the chief executive officer.

Corporate Transactions. Our 2011 Plan provides that the administrator may provide that, in the event of a change in control transaction, options outstanding as of the date of the change in control that are not fully vested will become fully vested and exercisable, and the administrator has discretion to provide, with respect to any outstanding award under the 2011 Plan, that the securities of another entity be substituted for the common stock subject to the award and to make equitable adjustments to the award in the administrator's discretion. In addition, our form of award agreement for PSU grants provides that PSUs are subject to time-based vesting and that PSUs will become excreisable upon the occurrence of a change in control, an initial public offering of our stock or our achieving an enterprise value of at least \$400 million. In addition, the PSU award agreement provides that the time-based vesting restrictions will accelerate and the PSUs will become fully vested if the recipient's employment is terminated other than for cause as a result of a change in control and, if the recipient's employment terminates due to death, disability or retirement, then the PSUs will fully vest on the earlier of the one-year anniversary of termination or the expiration of the remaining time-based vesting period.

For these purposes, a change in control means (i) any corporation, person or other entity, other than us, one of our majority-owned subsidiaries or an employee benefit plan sponsored by us, becomes the beneficial owner of stock representing more than 50% of the combined voting power of our then outstanding securities, (ii) our stockholders approving a definitive agreement to merge or consolidate the company with or into another corporation other than a majority-owned subsidiary, or to sell or otherwise dispose of all or substantially all of our assets and the persons who were members of our Board prior to such approval do not represent a majority of the directors of the surviving, resulting or acquiring entity or its parent, (iii) our stockholders approve a plan of liquidation of the company, or (iv) within any 24

consecutive month period, persons who were members of our board of directors immediately prior to the 24 month period, together with persons who were first elected as directors during the 24 month period by or upon the recommendation of persons who were members of our board of directors immediately prior to the 24 month period and who constituted a majority of our board of directors at the time of such election, cease to constitute a majority of our board of directors.

Plan Amendment and Termination. Our board of directors may at any time amend, alter or discontinue our 2011 Plan. However, our board of directors must obtain approval of our stockholders for any amendment requiring such approval under federal tax or federal securities laws. In addition, our board of directors may not materially impair the rights of a holder of any award previously granted under our 2011 Plan without the consent of the holder of such award, except any amendment to avoid an expense charge to us or an affiliate, to comply with applicable law or to permit us or an affiliate a deduction under applicable law. Our 2011 Plan will terminate in August 2022 or, if earlier, a date determined by our board of directors.

2015 Employee Stock Purchase Plan

We expect that our board of directors will adopt, and our stockholders will approve, prior to the closing of this offering our 2015 Employee Stock Purchase Plan, or the ESPP. The ESPP will become effective immediately upon the execution and delivery of the underwriting agreement related to this offering. The purpose of the ESPP is to secure the services of new employees, to retain the services of existing employees and to provide incentives for such individuals to exert maximum efforts toward our success and that of our affiliates. The ESPP is intended to qualify as an "employee stock purchase plan" within the meaning of Section 423 of the Code.

Share Reserve. Following this offering, the ESPP authorizes the issuance of 1,000,000 shares of our common stock pursuant to purchase rights granted to our employees or to employees of any of our designated affiliates. The number of shares of our common stock reserved for issuance will automatically increase on January 1st of each calendar year, from January 2017 (assuming the ESPP becomes effective in 2016) through January 1, 2026, by the lesser of (1) 1% of the total number of shares of our common stock outstanding on December 31st of the preceding calendar year and (2) 1,760,000 shares; provided, that prior to the date of any such increase, our board of directors may determine that such increase will be less than the amount set forth in clauses (1) and (2). As of the date hereof, no shares of our common stock have been purchased under the ESPP.

Administration. Our board of directors has delegated its authority to administer the ESPP to our compensation committee. The ESPP is implemented through a series of offerings under which eligible employees are granted purchase rights to purchase shares of our common stock on specified dates during such offerings. Under the ESPP, we may specify offerings with durations of not more than 27 months, and may specify shorter purchase periods within each offering. Each offering will have one or more purchase dates on which shares of our common stock will be purchased for employees participating in the offering. An offering under the ESPP may be terminated under certain circumstances.

Payroll Deductions. Generally, all regular employees, including executive officers, employed by us or by any of our designated affiliates, may participate in the ESPP and may contribute, normally through payroll deductions, up to 15% of their earnings (as defined in the ESPP) for the purchase of our common stock under the ESPP. Unless otherwise determined by our board of directors, common stock will be purchased for the accounts of employees participating in the ESPP at a price per share equal to the lower of (a) 85% of the fair market value of a share of our common stock on the first date of an offering or (b) 85% of the fair market value of a share of our common stock on the date of purchase.

Limitations. Employees may have to satisfy one or more of the following service requirements before participating in the ESPP, as determined by our board of directors, including: (1) being customarily employed for more than 20 hours per week; (2) being customarily employed for more than five months per calendar year; or (3) continuous employment with us or one of our affiliates for a period of time (not to exceed two years). No employee may purchase shares under the ESPP at a rate in excess of \$25,000 worth of our common stock based on the fair market value per share of our common stock at the beginning of an offering for each year such a purchase right is outstanding. Finally, no employee will be eligible for the grant of any purchase rights under the ESPP if immediately after such rights are granted, such employee has voting power over 5% or more of our outstanding capital stock measured by vote or value pursuant to Section 424(d) of the Code.

Changes to Capital Structure. In the event that there occurs a change in our capital structure through such actions as a stock split, merger, consolidation, reorganization, recapitalization, reincorporation, stock dividend, dividend in property other than cash, large nonrecurring cash dividend, liquidating dividend, combination of shares, exchange of shares, change in corporate structure or similar transaction, the board of directors will make appropriate adjustments to (1) the number of shares reserved under the ESPP, (2) the maximum number of shares by which the share reserve may increase automatically each year and (3) the number of shares and purchase price of all outstanding purchase rights.

Corporate Transactions. In the event of certain significant corporate transactions, including: (1) a sale of all or substantially all of our assets, (2) the sale or disposition of 50% of our outstanding securities, (3) the consummation of a merger or consolidation where we do not survive the transactions and (4) the consummation of a merger or consolidation where we do survive the transaction but the shares of our common stock outstanding immediately prior to such transaction are converted or exchanged into other property by virtue of the transaction, any then-outstanding rights to purchase our stock under the ESPP may be assumed, continued or substituted for by any surviving or acquiring entity (or its parent company). If the surviving or acquiring entity (or its parent company) elects not to assume, continue or substitute for such purchase rights, then the participants' accumulated payroll contributions will be used to purchase shares of our common stock within 10 business days s prior to such corporate transaction, and such purchase rights will terminate immediately

ESPP Amendments, Termination. Our board of directors has the authority to amend or terminate our ESPP, provided that except in certain circumstances such amendment or termination may not materially impair any outstanding purchase rights without the holder's consent. We will obtain stockholder approval of any amendment to our ESPP as required by applicable law or listing requirements.

Limitations on Liability and Indemnification Matters

Upon the closing of this offering, our certificate of incorporation will contain provisions that limit the liability of our current and former directors for monetary damages to the fullest extent permitted by Delaware law. Delaware law provides that directors of a corporation will not be personally liable for monetary damages for any breach of fiduciary duties as directors, except liability for:

- any breach of the director's duty of loyalty to the corporation or its stockholders;
- any act or omission not in good faith or that involves intentional misconduct or a knowing violation of law;
- unlawful payments of dividends or unlawful stock repurchases or redemptions; or
- any transaction from which the director derived an improper personal benefit. Such limitation of liability does not
 apply to liabilities arising under federal securities laws and does not affect the availability of equitable remedies
 such as injunctive relief or rescission.

Our amended and restated certificate of incorporation and our amended and restated bylaws will provide that we are required to indemnify our directors, officers, employees and other agents to the fullest extent permitted by Delaware law. Our amended and restated bylaws will also provide that, upon satisfaction of certain conditions, we shall advance expenses incurred by a director in advance of the final disposition of any action or proceeding, and permit us to secure insurance on behalf of any officer, director, employee or other agent for any liability arising out of his or her actions in that capacity regardless of whether we would otherwise be permitted to indemnify him or her under the provisions of Delaware law. Our amended and restated certificate of incorporation and amended and restated bylaws will also provide our board of directors with discretion to indemnify our officers and employees when determined appropriate by the board. We have entered and expect to continue to enter into agreements to indemnify our directors, executive officers and other employees as determined by the board of directors. With certain exceptions, these agreements provide for indemnification for related expenses including, among other things, attorneys' fees, judgments, fines and settlement amounts incurred by any of these individuals in any action or proceeding. We believe that these certificate of incorporation and bylaw provisions and indemnification agreements are necessary to attract and retain qualified persons as directors and officers. We also maintain customary directors' and officers' liability insurance.

The limitation of liability and indemnification provisions in our amended and restated certificate of incorporation and amended and restated bylaws may discourage stockholders from bringing a lawsuit against our directors for breach of their fiduciary duty. They may also reduce the likelihood of derivative litigation against our directors and officers, even though an action, if successful, might benefit us and other stockholders. Further, a stockholder's investment may be adversely affected to the extent that we pay the costs of settlement and damage awards against directors and officers as required by these indemnification provisions.

At present, there is no pending litigation or proceeding involving any of our directors, officers or employees for which indemnification is sought and we are not aware of any threatened litigation that may result in claims for indemnification.

Insofar as indemnification for liabilities arising under the Securities Act may be permitted for directors, executive officers or persons controlling us, we have been informed that in the opinion of the SEC such indemnification is against public policy as expressed in the Securities Act and is therefore unenforceable.

Rule 10b5-1 Sales Plans

Our directors and executive officers may adopt written plans, known as Rule 10b5-1 plans, in which they will contract with a broker to buy or sell shares of our common stock on a periodic basis. Under a Rule 10b5-1 plan, a broker executes trades

pursuant to parameters established by the director or officer when entering into the plan, without further direction from them. The director or officer may amend a Rule 10b5-1 plan in some circumstances and may terminate a plan at any time. Our directors and executive officers also may buy or sell additional shares outside of a Rule 10b5-1 plan when they are not in possession of material nonpublic information subject to compliance with the terms of our insider trading policy. Prior to 180 days after the date of this offering (subject to early termination), the sale of any shares under such plan would be subject to the lock-up agreement that the director or officer has entered into with the underwriters.

CERTAIN RELATIONSHIPS AND RELATED PARTY TRANSACTIONS

The following is a summary of transactions since October 1, 2012 to which we have been a party, in which the amount involved exceeded or will exceed \$120,000 and in which any of our directors, executive officers or holders of more than 5% of our capital stock, or an affiliate or immediate family member thereof, had or will have a direct or indirect material interest other than compensation and other arrangements that are described in the section titled "Executive Compensation."

We believe the terms obtained or consideration that we paid or received, as applicable, in connection with the transactions described below were comparable to terms available or the amounts that would be paid or received, as applicable, in arm's-length transactions.

Financings

Common Stock

Founders

In December 2012, Dr. Mohan, our Chairman, President and Chief Executive Officer, and his wife, Swati Mohan, a holder of more than 5% of our capital stock at such time, agreed to cancel an aggregate of 2,300,000 shares of our then issued and outstanding common stock held by them in exchange for nominal consideration.

In December 2012, we then issued 2,300,000 shares of our common stock to a third party associated with India Infrastructure Private Limited, or IIPL, for services provided.

Strides Pharma, Inc.

In March 2014, we issued and sold to Strides Pharma, Inc., or Strides, 4,000,000 shares of our common stock at a purchase price of \$1.75 per share, or \$7,000,000. Following this investment, Strides became a beneficial owner of more than 5% of our outstanding capital stock. In June 2014, we issued and sold to Strides an additional 2,000,000 shares of our common stock at a purchase price of \$2.00 per share, or \$4,000,000. In connection with such issuances, we entered into an investors' rights agreement and a co-sale agreement with Strides. Upon the closing of this offering, certain provisions of the investors' rights agreement will terminate and the continuing provisions are described below. The co-sale agreement will automatically terminate effective upon the completion of this offering. In connection with the Strides investment, we were required to repurchase outstanding capital stock in order to reduce our fully diluted common stock to 40,000,000 shares after giving effect to its investment in our common stock. We refer to this repurchase as a "buyback."

In October 2014, we issued a 12% \$2,000,000 convertible promissory note to Strides, with a stated maturity date of December 31, 2016. The note is convertible at any time into shares of our common stock at a conversion price of \$6.00 per share. In October 2015, we repaid \$1,000,000 of the principal amount, and Strides has elected to receive payment in cash for the remainder rather than any equity conversion.

In December 2014, we issued a 12% \$2,000,000 convertible promissory note to Strides, which matured on March 31, 2015. This note was convertible at any time into shares of our common stock at a conversion price equal to 50% of the fair market value of our common stock on the conversion date. We repaid this note in full at maturity and it is no longer outstanding.

Mezzanine Financings

In June, July and September 2015, we issued and sold an aggregate of 6,091,035 shares of our common stock to nine institutional investors at a purchase price of \$7.475 per share, for aggregate gross proceeds of \$45,530,484. These investors became party to the Strides investors' rights agreement, as amended, and the co-sale agreement, as amended.

In December 2015 and January 2016, we issued and sold an aggregate of 1,978,224 shares of our common stock to 19 accredited investors at a purchase price of \$8.42 per share, for aggregate net proceeds of approximately \$16.6 million. These investors became party to the Strides investors' rights agreement, as amended, and the co-sale agreement, as amended.

The foregoing mezzanine financings include the issuance and sale to Proximare Lifesciences Fund LLC, a New Jersey single purpose fund, of an aggregate of 679,664 shares of our common stock at a purchase price of \$7.475 per share, for aggregate gross proceeds of approximately \$5.1 million, and the issuance and sale to Proximare Lifesciences Fund 2 LLC, a New Jersey single purpose fund, an aggregate of 593,823 shares of our common stock at a purchase price of \$8.42 per share, for aggregate gross proceeds of approximately \$5.0 million. Three of our directors, Messrs. Canute and Hilzinger and

Ms. Hoke, have invested an aggregate of \$2.0 million in our company through investments in these funds. Upon completion of this offering and pursuant to the documents governing such funds, these directors are expected to receive shares of our common stock pro rata to their investments in such funds upon distribution of all of the shares of our common stock held by such funds as follows: Mr. Canute, 198,058 shares; Mr. Hilzinger, 63,887 shares; Ms. Hoke, 6,689 shares.

Series A Redeemable Preferred Stock

From March 2011 to May 2013, we issued and sold an aggregate of 6,995 shares of Series A redeemable preferred stock at \$1,000 per share. Certain of our directors and executive officers, including some of their immediate family members, participated in these offerings as described below.

In October 2012, Mr. Canute, a member of our board of directors, purchased 100 additional shares of our Series A redeemable preferred stock for an aggregate purchase price of \$100,000, bringing his aggregate investment to 1,150 shares.

In May 2013, Dr. Brady, a member of our board of directors, purchased 100 shares of our Series A redeemable preferred stock for an aggregate purchase price of \$100,000.

In October 2015, upon our reincorporation in Delaware, each outstanding share of our Series A redeemable preferred stock held by holders that did not elect to participate in the June 2014 buyback described below, converted into and became 1,000 shares of common stock and approximately 1.4035 shares of Series A preferred stock. Accordingly, the following related parties received such shares upon conversion of the following amounts of our Series A redeemable preferred stock held by them:

Related Party	# of Shares of Series A Redeemable Preferred Stock Converted	# of Shares of Common Stock Received Upon Conversion	# of Shares of DE Series A Preferred Stock Received Upon Conversion
Mr. Canute	250 shares	250,000 shares	351 shares
Dr. Brady	100 shares	100,000 shares	141 shares
Dr. Mohan's immediate family	150 shares	150,000 shares	212 shares
Mr. Gangloff's immediate family	55 shares	55,000 shares	79 shares
Mr. Griffith's immediate family	35 shares	35,000 shares	50 shares

June 2014 Buyback

In June 2014, as required by the Strides investment in our common stock described above under "— Common Stock — Strides Pharma, Inc." we undertook a buyback of our then outstanding Series A redeemable preferred stock, common stock and restricted stock awards to reduce our fully diluted common stock to 40,000,000 shares after giving effect to Strides' investment in our common stock. No related parties participated in the buyback of common stock.

Series A Redeemable Preferred

In the June 2014 buyback, we offered Series A redeemable preferred stockholders \$2,000 per share, payable in cash as payment for their shares of Series A redeemable preferred stock, and a 4% promissory note due September 1, 2015, as payment for accrued but unpaid dividends on such shares (increasing to 6% if unpaid at maturity). However, certain holders elected to receive a 4% promissory note for payment for some of their shares in lieu of the \$2,000 per share cash payment. These holders included Dr. Mohan, a member of our board of directors, for 175 of his repurchased shares, Mr. Canute, a member of our board of directors, for 650 of his repurchased shares, and Mr. Griffith, a member of our board of directors, for 150 of his repurchased shares.

In the June 2014 buyback, we acquired an aggregate of 3,314 shares of our Series A redeemable preferred stock, which included the following shares repurchased from related parties:

Related Party	# of Series A Redeemable Preferred Stock Repurchased	Cas	sh Received	4%	Principal Amount of Promissory tes Received
Dr. Mohan	175	\$	_	\$	423,003
Mr. Canute	900	\$	500,000	\$	1,511,384
Mr. Griffith and his immediate family	165	\$	130,000	\$	247,068
Mr. Gangloff's immediate family	45	\$	90,000	\$	12,580
Mr. Dyrness' affiliate	100	\$	200,000	\$	35,107

In November 2014, we bought back an additional 25 shares of Series A redeemable preferred stock from Dr. Mohan for \$50,000 in cash. Dr. Mohan did not receive an additional 4% note for the accrued dividend on such shares as such amounts were reflected in the note received in June 2014.

Restricted Stock

In the June 2014 buyback, we offered holders of restricted stock \$0.50 per share to forfeit their shares of restricted stock payable in the form of a 0% promissory note due December 31, 2015, as amended. In connection therewith, Mr. Canute received a 0% promissory note with an aggregate principal amount of \$200,000 due December 31, 2015, as amended, in exchange for 400,000 shares of restricted stock. All outstanding amounts have been paid in full.

Loans and Guarantees

In March 2015, Mr. Canute, a member of our board of directors, extended a short-term loan to our company of \$1,000,000. Accordingly, we issued a promissory note to Mr. Canute for the principal amount of \$1,000,000, which note bore stated interest at a rate of 2% per month, with a stated maturity date of June 20, 2015. This note was repaid in full in October 2015 and is no longer outstanding.

Our Chairman, President and Chief Executive Officer, Dr. Mohan, personally guaranteed our outstanding bank loans, as well as one of our equipment financing leases. In addition, since founding our company, Dr. Mohan has regularly extended short-term interest-free loans to our company, and deferred payment of his compensation (both salary and bonuses) in order to address our liquidity needs. As of September 30, 2014 and September 30, 2015, amounts owed to Dr. Mohan amounted to \$200,315 and \$117,506, respectively. We did not accrue any interest on amounts owed to Dr. Mohan with respect to the loans and all outstanding amounts have been repaid in full.

Employment and Other Compensation Arrangements, Equity Plan Awards

Prior to the completion of this offering, we will enter into employment agreements with certain of our executive officers in connection with their employment. For more information regarding the executives' existing offer letters, see the section titled "Executive Compensation — Employment Agreements."

We also have established certain equity plans, pursuant to which we grant equity awards to our employees and directors. For more information regarding these plans, see the section titled "Executive Compensation — Equity Benefit Plans."

Performance Stock Units

We previously granted our employees, including our executive officers, options to purchase shares of our common stock or restricted stock under our 2011 Plan. In June 2014, we converted most of these outstanding equity awards into an aggregate of 2,454,480 performance stock units, or PSUs. The PSUs as issued are subject to time-based vesting, with 50% of the award vesting three-years after the original grant date, and the remaining 50% vesting four-years after the grant date and were to be settled in cash. The PSUs may only be exercised during their 10-year term on or following the achievement of specified performance conditions, including the occurrence of a change in control, the closing of this offering, or, subject to the discretion of our board of directors, our achieving an enterprise value of at least \$400 million. In addition, PSUs may be subject to additional acceleration of time-based vesting restrictions upon certain termination and change in control events. The following related parties received PSUs in such conversion as follows:

Related Party	Restricted Stock	PSUs
Mr. Gangloff	400,000	448,000
Mr. Griffith	500,000	560,000
Dr. McAndrew	200,000	224,000
Ms. Yamashita	150,000	168,000

On June 22, 2015, in connection with his employment with us, we granted Dr. Bahrt, our Chief Medical Officer, 100,000 PSUs on the terms noted above.

In December 2015, Messrs. Bahrt, Gangloff, Griffith and McAndrew, and Ms. Yamashita forfeited their PSUs and were granted restricted stock units, or RSUs, under our 2015 Plan. The RSUs granted to Mr. Gangloff and Mr. Griffith are subject to performance-based vesting restrictions and will satisfy such conditions upon the first to occur of a change in control of the company and the date that is six months following the effective date of the registration statement of which this prospectus forms a part, in each case subject to the recipient's continued service with us through such event. The RSUs granted to Dr. Bahrt, Dr. McAndrew and Ms. Yamashita are subject to the same performance-based vesting restrictions but are also subject to additional time-based vesting restrictions, with 50% of their RSUs satisfying the time-based vesting restrictions on each of the third and fourth anniversaries of their original hire dates, subject to their continuous service with us through the applicable dates. The time-based vesting restrictions will be satisfied upon a change in control of the company, provided the executive remains in continuous service with us through such date.

Parilis Biopharmaceuticals, LLC

In December 2012, our former subsidiary, Parilis Biopharmaceuticals, LLC, or Parilis, of which we were the sole member, issued 100 of its Series A Units to Dr. Brady, who became a director of our company in September 2014, at a purchase price of \$1,000 per share, or an aggregate of \$100,000 (bringing his total investment in Parilis to 200 Series A Units).

In September 2015, we terminated the license and business development agreements with Parilis, and reached agreement with the remaining holders of outstanding Series A and Series A Hybrid Units of Parilis to exchange their securities for securities in our company. These holders included Dr. Brady. Accordingly, in September 2015, we entered into an exchange and release agreement pursuant to which they received an aggregate of 782,000 shares of our common stock and an aggregate of 1,626 shares of our Series A preferred stock effective upon our reincorporation in Delaware in October 2015. Accordingly, in October 2015, Dr. Brady received an aggregate of 100,000 shares of our common stock and 257 shares of our Series A preferred stock in exchange for his 200 Series A Units of Parilis.

Sonnet Biotherapeutics, Inc.

In April 2015, we spun-off certain assets unrelated to our biosimilar business through a pro rata distribution to our stockholders. Accordingly, we entered into a contribution agreement with a newly-formed entity, Sonnet Biotherapeutics, Inc., or Sonnet, pursuant to which we contributed certain assets relating to our innovation business to Sonnet in exchange for these assets. We then immediately distributed all the issued and outstanding shares of Sonnet common stock to our stockholders on a pro rata basis, which stockholders included our executive officers, directors and holders of more than 5% of our outstanding capital stock. Accordingly, immediately following the distribution, the stockholders of Sonnet were identical to our stockholders as of April 6, 2015.

We continued to provide funding and certain services and assistance to Sonnet for a transition period that ran from the spin-off date through September 2015, including the transfer of nine of our employees who had been involved in Sonnet's business to Sonnet. In October 2015, Sonnet issued us a promissory note for the principal amount of \$826,561, which reflects the funding we have provided them through September 30, 2015. This note bears interest at the annual rate of 3%, and matures September 30, 2016, although Sonnet may prepay at any time. Sonnet paid 10% of the outstanding balance upon execution of the note in October 2015. As of December 31, 2015, the balance was \$639,173.

Dr. Mohan and Mr. Griffith are members of the board of directors of Sonnet. In addition, Mr. Griffith is the President, Chief Executive Officer and Chief Financial Officer of Sonnet.

Investors' Rights Agreement

In connection with our common stock financings, we entered into an investors' rights agreement containing registration rights, among other things, with certain holders of our common stock. The registration rights granted under the investors' rights agreement will terminate upon the closing of a qualified liquidation event and at such time as a particular

stockholder is able to sell all of its shares pursuant to Rule 144 of the Securities Act. The registration rights are more fully described in "Description of Capital Stock — Registration Rights."

Directed Share Program

At our request, the underwriters have reserved shares of our common stock, or 5% of the shares being offered by this prospectus (excluding the shares of common stock that may be issued upon the underwriters' exercise of their over-allotment option to purchase additional shares), for sale at the initial public offering price to our employees, executive officers, directors, stockholders and business associates, as well as to persons related to the company and our affiliates and their friends and family through a directed share program. The number of shares of our common stock available for sale to the general public in the public offering will be reduced by the number of shares these individuals purchase. Any reserved shares that are not so purchased will be offered by the underwriters to the general public on the same basis as the other shares offered hereby. Directors and officers who purchase these shares will be subject to a 180 day lock-up period with respect to these shares. We have agreed to indemnify the underwriter conducting the directed share program against certain liabilities and expenses, including liabilities under the Securities Act, in connection with the directed share program.

Indemnification Agreements

Our amended and restated certificate of incorporation will contain provisions limiting the liability of directors, and our amended and restated bylaws will provide that we will indemnify each of our directors to the fullest extent permitted under Delaware law. Our amended and restated certificate of incorporation and amended and restated bylaws will also provide our board of directors with discretion to indemnify our officers and employees when determined appropriate by the board. In addition, we have entered into an indemnification agreement with each of our directors and executive officers that requires us to indemnify our directors and executive officers. For more information regarding these agreements, see the section titled "Executive Compensation — Limitations on Liability and Indemnification Matters."

Related-Party Transaction Policy

We intend to adopt a formal written policy that our executive officers, directors, holders of more than 5% of any class of our voting securities, and any member of the immediate family of and any entity affiliated with any of the foregoing persons, are not permitted to enter into a related-party transaction with us without the prior consent of our audit committee, or other independent members of our board of directors in the event it is inappropriate for our audit committee to review such transaction due to a conflict of interest. Any request for us to enter into a transaction with an executive officer, director, principal stockholder or any of their immediate family members or affiliates, in which the amount involved exceeds \$120,000 must first be presented to our audit committee for review, consideration and approval. In approving or rejecting any such proposal, our audit committee will consider the relevant facts and circumstances available and deemed relevant to our audit committee, including, but not limited to, whether the transaction will be on terms no less favorable than terms generally available to an unaffiliated third-party under the same or similar circumstances and the extent of the related-party's interest in the transaction.

All of the transactions described in this section were entered into prior to the adoption of this policy.

PRINCIPAL STOCKHOLDERS

The following table sets forth certain information relating to the beneficial ownership of our common stock as of December 31, 2015, by:

- each person, or group of affiliated persons, known by us to beneficially own more than 5% of our outstanding shares of common stock;
- each of our directors:
- each of our named executive officers; and
- all of our directors and executive officers as a group.

The percentage of shares beneficially owned before the offering shown in the table is based upon 48,873,890 shares of common stock outstanding, which includes 48,572,738 shares of common stock outstanding as of December 31, 2015 and 301,152 shares of common stock issued in January 2016. This table does not give effect to the conversion of all outstanding shares of Series A redeemable preferred stock (with an aggregate liquidation preference of \$11,819,000 and a conversion price equal to the initial public offering price) into shares of common stock immediately prior to the closing of this offering (assuming an initial public offering price of \$ per share, the midpoint of the price range set forth on the cover page of this prospectus), nor any shares that may be acquired pursuant to the directed share program. The information relating to the number and percentage of shares beneficially owned after the offering assumes the sale by shares of common stock in this offering. The percentage ownership information assumes no exercise of the underwriters' over-allotment option to purchase additional shares.

Beneficial ownership is determined in accordance with the rules of the SEC and generally includes any shares over which a person exercises sole or shared voting or investment power. Unless otherwise indicated, the persons or entities identified in this table have sole voting and investment power with respect to all shares shown beneficially owned by them. subject to applicable community property laws. Shares of common stock issuable upon vesting of outstanding equity awards that are exercisable or subject to vesting within 60 days after December 31, 2015 are deemed beneficially owned and such shares are used in computing the percentage ownership of the person holding the awards, but are not deemed outstanding for the purpose of computing the percentage ownership of any other person. The information contained in the following table is not necessarily indicative of beneficial ownership for any other purpose, and the inclusion of any shares in the table does not constitute an admission of beneficial ownership of those shares.

As otherwise noted below, the address for persons listed in the table is c/o Oncobiologics, Inc., 7 Clarke Drive, Cranbury, New Jersey 08512.

		Percentage of Shares Beneficially Owned		
Name of Beneficial Owner	Number	Before Offering	After Offering	
Five Percent Stockholders (other than directors and officers):				
Strides Pharma Limited ⁽¹⁾	6,000,000	12.3%		
Named Executive Officers and Directors:				
Pankaj Mohan, Ph.D., Chairman, President and Chief Executive Officer ⁽²⁾	25,775,000	52.7%		
Kenneth M. Bahrt, M.D., <i>Chief Medical Officer</i> ⁽³⁾	_	_		
Elizabeth A. Yamashita, <i>Vice President, Regulatory Affairs</i> (4)	_	_		
Todd C. Brady, M.D., Ph.D., <i>Director</i> ⁽⁵⁾	200,000	*		
Scott Canute, <i>Director</i> ⁽⁶⁾	250,000	*		
Albert D. Dyrness, <i>Director</i> ⁽⁷⁾	_	_		
Donald J. Griffith, <i>Director</i> ⁽⁸⁾	_	_		
Kurt J. Hilzinger, <i>Director</i> ⁽⁹⁾	_	_		
Robin Smith Hoke, <i>Director</i> ⁽¹⁰⁾	_	_		
All executive officers and directors as a group (13 persons)	26,225,000	53.6%		

- Represents beneficial ownership of less than one percent (1%) of the outstanding common stock.
- The address for Strides Pharma Limited is Unit 4, Metro Centre, Tolpits Lane, Watford, Hertfordshire, WD18. Includes 75,000 shares held directly by Dr. Mohan's child, 1,400,000 shares held directly by Dr. Mohan's spouse and 600,000 shares held in family trusts for which either Dr. Mohan or Dr. Mohan's spouse serves as trustee. Does not include shares of common stock issuable upon conversion of 106 shares of Series A preferred stock held by Dr. Mohan's child with a liquidation preference of \$1,000 per share. Does not include 1,400,000 restricted stock unit awards, or RSUs, held by Dr. Mohan. Does not include 100,000 RSUs held by Dr. Bahrt.

- (4) Does not include 150,000 RSUs held by Ms. Yamashita.
- (5) Does not include shares of common stock issuable upon conversion of 398 shares of Series A preferred stock held by Dr. Brady with a liquidation preference of \$1,000 per share. Does not include 200,000 RSUs held by Dr. Brady.
- (6) Does not include shares of common stock issuable upon conversion of 351 shares of Series A preferred stock held by Mr. Canute with a liquidation preference of \$1,000 per share. Does not include (x) 200,000 RSUs held by Mr. Canute nor (y) 198,058 shares held in a special purpose fund, Proximare Lifesciences Fund LLC, over which he does not have voting or investment control.
- (7) Does not include 25,000 RSUs held by Mr. Dyrness.
- (8) Does not include 500,000 RSUs held by Mr. Griffith.
- (9) Does not include (x) 25,000 RSUs held by Mr. Hilzinger nor (y) 63,887 shares held in special purpose funds, Proximare Lifesciences Fund LLC and Proximare Lifesciences Fund 2 LLC, over which he does not have voting or investment control.
- (10) Does not include (x) 25,000 RSUs held by Ms. Hoke nor (y) 6,689 shares held in a special purpose fund, Proximare Lifesciences Fund LLC, over which she does not have voting or investment control.

DESCRIPTION OF CAPITAL STOCK

Upon the closing of this offering and the filing of our amended and restated certificate of incorporation, our authorized capital stock will consist of 200,000,000 shares of common stock, par value \$0.01 per share, and 10,000,000 shares of preferred stock, par value \$0.01 per share. The following is a summary of the rights of our common and preferred stock and some of the provisions of our amended and restated certificate of incorporation and amended and restated bylaws, which will each become effective upon the closing of this offering, the investors' rights agreement and relevant provisions of Delaware General Corporation Law. Because it is only a summary, it does not contain all the information that may be important to you. For a complete description you should refer to our amended and restated certificate of incorporation, amended and restated bylaws and investors' rights agreement, copies of which have been filed as exhibits to the registration statement of which this prospectus is a part, as well as the relevant provisions of Delaware General Corporation Law.

Common Stock

As of December 31, 2015, there were 48,572,738 shares of common stock outstanding. After giving effect to (i) the issuance of an aggregate of 301,152 shares of our common stock in January 2016 and (ii) the conversion of all outstanding shares of Series A preferred stock (with an aggregate liquidation preference of \$11,819,000 and a conversion price equal to the initial public offering price) into shares of common stock immediately prior to the closing of this offering an initial public offering price of per share, the midpoint of the price range set forth on the cover page of this prospectus), there would have been shares of common stock outstanding on that date held by

Voting Rights

Each holder of common stock is entitled to one vote for each share on all matters submitted to a vote of the stockholders. The affirmative vote of holders of 66%% of the voting power of all of the then-outstanding shares of capital stock, voting as a single class, will be required to amend certain provisions of our amended and restated certificate of incorporation, including provisions relating to amending our amended and restated bylaws, the classified board, the size of our board, removal of directors, director liability, vacancies on our board, special meetings, stockholder notices, actions by written consent and exclusive jurisdiction.

Dividende

Subject to preferences that may apply to any outstanding preferred stock, holders of our common stock are entitled to receive ratably any dividends that our board of directors may declare out of funds legally available for that purpose on a non-cumulative basis.

Liquidation

In the event of our liquidation, dissolution or winding up, holders of our common stock are entitled to share ratably in all assets remaining after payment of liabilities and the liquidation preference of any outstanding preferred stock.

Rights and Preferences

Holders of our common stock have no preemptive, conversion, subscription or other rights, and there are no redemption or sinking fund provisions applicable to our common stock. The rights, preferences and privileges of the holders of our common stock are subject to and may be adversely affected by the rights of the holders of shares of any series of our preferred stock that we may designate in the future.

Preferred Stock

Immediately prior to the closing of this offering, all outstanding shares of our preferred stock will convert into shares of common stock. Upon the closing of this offering and the filing of our amended and restated certificate of incorporation, our board of directors will have the authority, without further action by our stockholders, to issue up to 10,000,000 shares of preferred stock in one or more series and to fix the number, rights, preferences, privileges and restrictions thereof. These rights, preferences and privileges could include dividend rights, conversion rights, voting rights, terms of redemption, liquidation preferences and sinking fund terms, and the number of shares constituting any series or the designation of such series, any or all of which may be greater than the rights of common stock. The issuance of our preferred stock could adversely affect the voting power of holders of common stock and the likelihood that such holders will receive dividend payments and payments upon liquidation. In addition, the issuance of preferred stock could have the effect of delaying, deferring or preventing a change in control or other corporate action. We have no current plan to issue any shares of preferred stock.

Common Stock Equivalents

As of the closing of this offering, we will have RSUs and other securities outstanding that will be convertible into, or exercisable for, an aggregate of shares of our common stock.

Stockholder Registration Rights

After the closing of this offering, certain holders of shares of our common stock, including certain holders of five percent of our capital stock and entities affiliated with certain of our directors, will be entitled to certain rights with respect to registration of such shares under the Securities Act. These shares are referred to as registrable securities. The holders of these registrable securities possess registration rights pursuant to the terms of the investors' rights agreement and are described in additional detail below.

The registration of shares of our common stock pursuant to the exercise of the registration rights described below would enable the holders to trade these shares without restriction under the Securities Act when the applicable registration statement is declared effective. We will pay the registration expenses, other than underwriting discounts, selling commissions and stock transfer taxes, of the shares registered pursuant to the demand, piggyback and Form S-3 registrations described below.

Generally, in an underwritten offering, the managing underwriter, if any, has the right, subject to specified conditions, to limit the number of shares the holders may include. The demand, piggyback and Form S-3 registration rights described below will expire three years after the effective date of the registration statement, of which this prospectus forms a part, or with respect to any particular holder, at such time that such holder can sell its shares under Rule 144 of the Securities Act during any three-month period.

Demand Registration Rights

The holders of the registrable securities will be entitled to certain demand registration rights. At any time beginning 180 days following the closing of this offering, the holders of the registrable securities then outstanding may make a written request that we register all or a portion of their shares, subject to certain specified exceptions. Such request for registration must cover securities the aggregate offering price of which, before payment of underwriting discounts, commissions and other expenses related to such registration, would exceed \$5,000,000.

Piggyback Registration Rights

In connection with this offering, the holders of registrable securities were entitled to, and the necessary percentage of holders waived, their rights to notice of this offering and to include their shares of registrable securities in this offering. If we propose to register for offer and sale any of our securities under the Securities Act in another offering, either for our own account or for the account of other security holders, the holders of these shares will be entitled to certain "piggyback" registration rights allowing them to include their shares in such registration, subject to certain marketing and other limitations. As a result, whenever we propose to file a registration statement under the Securities Act, including a registration statement on Form S-3 as discussed below, other than with respect to a demand registration or a registration statement on Forms S-4 or S-8 or related to stock issued upon conversion of debt securities, the holders of these shares are entitled to notice of the registration and have the right, subject to limitations that the underwriters may impose on the number of shares included in the registration, to include their shares in the registration.

Form S-3 Registration Rights

The holders of the registrable securities will be entitled to certain Form S-3 registration rights. Any holder of these shares can make a request that we register for offer and sale their shares on Form S-3 if we are qualified to file a registration statement on Form S-3, subject to certain specified exceptions. Such request for registration on Form S-3 must cover securities the aggregate offering price of which, before payment of the underwriting discounts and commissions, equals or exceeds \$1,000,000. We will not be required to effect more than two registrations on Form S-3 within any 12-month period.

Anti-Takeover Provisions of Delaware Law and Our Charter Documents

Section 203 of the Delaware General Corporation Law

We are subject to Section 203 of the Delaware General Corporation Law, which prohibits a Delaware corporation from engaging in any business combination with any interested stockholder for a period of three years after the date that such stockholder became an interested stockholder, with the following exceptions:

- before such date, the board of directors of the corporation approved either the business combination or the transaction that resulted in the stockholder becoming an interested stockholder;
- upon completion of the transaction that resulted in the stockholder becoming an interested stockholder, the interested stockholder owned at least 85% of the voting stock of the corporation outstanding at the time the transaction began, excluding for purposes of determining the voting stock outstanding (but not the outstanding voting stock owned by the interested stockholder) those shares owned (1) by persons who are directors and also officers and (2) employee stock plans in which employee participants do not have the right to determine confidentially whether shares held subject to the plan will be tendered in a tender or exchange offer; and
- on or after such date, the business combination is approved by the board of directors and authorized at an annual or special meeting of the stockholders, and not by written consent, by the affirmative vote of at least 66%% of the outstanding voting stock that is not owned by the interested stockholder.

In general, Section 203 defines a "business combination" to include the following:

- any merger or consolidation involving the corporation and the interested stockholder;
- any sale, transfer, pledge or other disposition of 10% or more of the assets of the corporation involving the interested stockholder;
- subject to certain exceptions, any transaction that results in the issuance or transfer by the corporation of any stock of the corporation to the interested stockholder;
- any transaction involving the corporation that has the effect of increasing the proportionate share of the stock or any class or series of the corporation beneficially owned by the interested stockholder;
- the receipt by the interested stockholder of the benefit of any loans, advances, guarantees, pledges or other financial benefits by or through the corporation; and
- in general, Section 203 defines an "interested stockholder" as an entity or person who, together with the person's affiliates and associates, beneficially owns, or within three years prior to the time of determination of interested stockholder status did own, 15% or more of the outstanding voting stock of the corporation.

The statute could prohibit or delay mergers or other takeover or change in control attempts and, accordingly, may discourage attempts to acquire us even though such a transaction may offer our stockholders the opportunity to sell their stock at a price above the prevailing market price.

Amended and Restated Certificate of Incorporation and Amended and Restated Bylaws

Among other things, our amended and restated certificate of incorporation and amended and restated bylaws will:

- permit our board of directors to issue up to 10,000,000 shares of preferred stock, with any rights, preferences
 and privileges as they may designate, including the right to approve an acquisition or other change in control;
- provide that the authorized number of directors may be changed only by resolution of our board of directors;
- provide that our board of directors will be classified into three classes of directors;
- provide that, subject to the rights of any series of preferred stock to elect directors, directors may only be removed for cause, which removal may be effected, subject to any limitation imposed by law, by the holders of at least a majority of the voting power of all of our then-outstanding shares of the capital stock entitled to vote generally at an election of directors;
- provide that all vacancies, including newly created directorships, may, except as otherwise required by law, be filled by the affirmative vote of a majority of directors then in office, even if less than a quorum;
- require that any action to be taken by our stockholders must be effected at a duly called annual or special meeting of stockholders and not be taken by written consent or electronic transmission:
- provide that stockholders seeking to present proposals before a meeting of stockholders or to nominate candidates for election as directors at a meeting of stockholders must provide advance notice in writing, and also specify requirements as to the form and content of a stockholder's notice;
- provide that special meetings of our stockholders may be called only by the chairman of our board of directors, our chief executive officer or president or by our board of directors pursuant to a resolution adopted by a majority of the total number of authorized directors; and
- not provide for cumulative voting rights, therefore allowing the holders of a majority of the shares of common stock entitled to vote in any election of directors to elect all of the directors standing for election, if they should so choose.

The amendment of any of these provisions would require approval by the holders of at least 66%% of the voting power of all of our then-outstanding common stock entitled to vote generally in the election of directors, voting together as a single class.

The combination of these provisions will make it more difficult for our existing stockholders to replace our board of directors as well as for another party to obtain control of us by replacing our board of directors. Because our board of directors has the power to retain and discharge our officers, these provisions could also make it more difficult for existing stockholders or another party to effect a change in management. In addition, the authorization of undesignated preferred stock makes it possible for our board of directors to issue preferred stock with voting or other rights or preferences that could impede the success of any attempt to change our control.

These provisions are intended to enhance the likelihood of continued stability in the composition of our board of directors and its policies and to discourage coercive takeover practices and inadequate takeover bids. These provisions are also designed to reduce our vulnerability to hostile takeovers and to discourage certain tactics that may be used in proxy fights. However, such provisions could have the effect of discouraging others from making tender offers for our shares and may have the effect of delaying changes in our control or management. As a consequence, these provisions may also inhibit fluctuations in the market price of our stock that could result from actual or rumored takeover attempts. We believe that the benefits of these provisions, including increased protection of our potential ability to negotiate with the proponent of an unfriendly or unsolicited proposal to acquire or restructure our company, outweigh the disadvantages of discouraging takeover proposals, because negotiation of takeover proposals could result in an improvement of their terms.

Choice of Forum

Our amended and restated certificate of incorporation will provide that the Court of Chancery of the State of Delaware will be the exclusive forum for any derivative action or proceeding brought on our behalf; any action asserting a breach of fiduciary duty; any action asserting a claim against us arising pursuant to the Delaware General Corporation Law, our certificate of incorporation or our bylaws; or any action asserting a claim against us that is governed by the internal affairs doctrine. The enforceability of similar choice of forum provisions in other companies' certificates of incorporation has been challenged in legal proceedings, and it is possible that, in connection with one or more actions or proceedings described above, a court could find the choice of forum provisions contained in our amended and restated certificate of incorporation to be inapplicable or unenforceable.

Listing

We have applied to list our common stock on the NASDAQ Global Market under the symbol "ONS."

Transfer Agent and Registrar

The transfer agent and registrar for our common stock is American Stock Transfer & Trust Company, LLC. The transfer agent and registrar's address is 6201 15th Avenue, Brooklyn, New York 11219.

SHARES ELIGIBLE FOR FUTURE SALE

Prior to this offering, there has been no public market for our common stock, and a liquid trading market for our common stock may not develop or be sustained after this offering. Future sales of our common stock, including shares issued upon the exercise of outstanding options or vesting of restricted stock unit awards, or RSUs, in the public market after the completion of this offering, or the perception that those sales may occur, could adversely affect the prevailing market price for our common stock from time to time or impair our ability to raise equity capital in the future. As described below, only a limited number of shares of our common stock will be available for sale in the public market for a period of several months after the completion of this offering due to contractual and legal restrictions on resale described below. Future sales of our common stock in the public market either before (to the extent permitted) or after restrictions lapse, or the perception that those sales may occur, could adversely affect the prevailing market price of our common stock at such time and our ability to raise equity capital at a time and price we deem appropriate.

Sale of Restricted Shares

Based on the number of shares of our common stock outstanding as of December 31, 2015 and after taking into account the issuance of an aggregate of 301,152 shares of our common stock in January 2016, upon the closing of this offering and assuming (1) the conversion of all 11,819 outstanding shares of our preferred stock into shares of common stock immediately prior to the closing of this offering, assuming an initial public offering price of \$ per share, the midpoint of the price range set forth on the cover page of this prospectus, (2) the issuance of 3,678,425 shares upon vesting of RSUs, and (3) no exercise of the underwriters' option to purchase additional shares of common stock to cover over-allotments, we will have outstanding an aggregate of approximately shares of common stock. Of these shares, all of the shares of common stock to be sold in this offering will be freely tradable in the public market without restriction or further registration under the Securities Act unless the shares are held by any of our "affiliates" as such term is defined in Rule 144 of the Securities Act, or subject to lock-up agreements, including shares of our common stock purchased in connection with the directed share program. All remaining shares of common stock held by existing stockholders immediately prior to the consummation of this offering, including shares issued upon vesting of RSUs, will be "restricted securities" as such term is defined in Rule 144. These restricted securities were issued and sold by us in private transactions and are eligible for public sale only if registered under the Securities Act or if they qualify for an exemption from registration under the Securities Act, including the exemptions provided by Rule 144 or Rule 701, which rules are summarized below.

As a result of the lock-up agreements referred to below and the provisions of Rule 144 and Rule 701 under the Securities Act, based on the number of shares of our common stock outstanding as of December 31, 2015 and vesting of RSUs in connection with this offering, the shares of our common stock (excluding the shares sold in this offering) that will be available for sale in the public market are as follows:

Approximate Number of Shares

First Date Available for Sale into Public Market

shares

181 days after the date of this prospectus, or longer if the lock-up period is extended, upon expiration of the lock-up agreements referred to below, subject in some cases to applicable volume, manner of sale and other limitations under Rule 144 and Rule 701

We may issue shares of common stock from time to time as consideration for future acquisitions, investments or other corporate purposes. In the event that any such acquisition, investment or other transaction is significant, the number of shares of common stock that we may issue may in turn be significant. We may also grant registration rights covering those shares of common stock issued in connection with any such acquisition and investment.

In addition, the shares of common stock reserved for future issuance under our 2011 Plan, 2015 Plan and ESPP will become eligible for sale in the public market to the extent permitted by the provisions of various vesting schedules, the lock-up agreements, a registration statement under the Securities Act or an exemption from registration, including Rule 144 and Rule 701.

Lock-Up Agreements

In connection with this offering, we, our directors, our executive officers and holders of substantially all of our other outstanding shares of common stock or securities convertible into or exchangeable for shares of our common stock outstanding immediately prior to the closing of this offering, have agreed, subject to certain exceptions, with the underwriters not to directly or indirectly offer, sell, contract to sell, pledge, grant any option to purchase, make any short

sale or otherwise dispose of or hedge any shares of our common stock or any options to purchase shares of our common stock, or any securities convertible into or exchangeable for shares of common stock during the period from the date of the lock-up agreement continuing through the date 180 days after the date of this prospectus, except with the prior written consent of Jefferies LLC and Barclays Capital Inc. and certain other exceptions. These agreements are described in the section titled "Underwriting."

In addition to the restrictions contained in the lock-up agreements described above, we have entered into agreements with certain security holders, including the investors' rights agreement and our standard form of option agreement, that contain market stand-off provisions imposing restrictions on the ability of such security holders to offer, sell or transfer our equity securities for a period of 180 days following the date of this prospectus.

Prior to the completion of the offering, certain of our employees, including our executive officers, and/or directors may enter into written trading plans that are intended to comply with Rule 10b5-1 under the Exchange Act. Sales under these trading plans would not be permitted until the expiration of the lock-up agreements relating to the offering described above.

Following the lock-up periods set forth in the agreements described above, and assuming that the representatives of the underwriters do not release any parties from these agreements and that there is no extension of the lock-up period, all of the shares of our common stock that are restricted securities or are held by our affiliates as of the date of this prospectus will be eligible for sale in the public market in compliance with Rule 144 under the Securities Act.

Additionally, participants in the directed share program and any directors or officers and their affiliates that purchase common stock from the underwriters in the offering have agreed with the underwriters that, for a period of 180 days following the date of this prospectus, subject to certain exceptions, they will not, directly or indirectly, offer, sell, contract to sell, pledge, grant any option to purchase, make any short sale, or otherwise dispose of or hedge any shares of common stock.

Rule 144

In general, persons who have beneficially owned restricted shares of our common stock for at least six months, and any affiliate of the company who owns either restricted or unrestricted shares of our common stock, are entitled to sell their securities without registration with the SEC under an exemption from registration provided by Rule 144 under the Securities Act.

In general, under Rule 144, as currently in effect, once we have been subject to the public company reporting requirements of the Exchange Act for at least 90 days, and we are current in our Exchange Act reporting at the time of sale, a person (or persons whose shares are required to be aggregated) who is not deemed to have been one of our "affiliates" for purposes of Rule 144 at any time during the 90 days preceding a sale and who has beneficially owned restricted securities within the meaning of Rule 144 for at least six months, including the holding period of any prior owner other than one of our "affiliates," is entitled to sell those shares in the public market (subject to the lock-up agreement referred to above, if applicable) without complying with the manner of sale, volume limitations or notice provisions of Rule 144, but subject to compliance with the public information requirements of Rule 144. If such a person has beneficially owned the shares proposed to be sold for at least one year, including the holding period of any prior owner other than "affiliates," then such person is entitled to sell such shares in the public market without complying with any of the requirements of Rule 144 (subject to the lock-up agreement referred to above, if applicable). In general, under Rule 144, as currently in effect, once we have been subject to the public company reporting requirements of the Exchange Act for at least 90 days, our "affiliates," as defined in Rule 144, who have beneficially owned the shares proposed to be sold for at least six months, are entitled to sell in the public market, upon expiration of any applicable lock-up agreements and within any three-month period, a number of those shares of our common stock that does not exceed the greater of:

- 1% of the number of common shares then outstanding, which will equal approximately shares of common stock immediately after the closing of this offering (calculated as of December 31, 2015 on the basis of the assumptions described above and assuming no exercise of the underwriter's option to purchase additional shares and no exercise of outstanding options); or
- the average weekly trading volume of our common stock on the NASDAQ Global Market, or NASDAQ, during the four calendar weeks preceding the filing of a notice on Form 144 with respect to such sale.

Such sales under Rule 144 by our "affiliates" or persons selling shares on behalf of our "affiliates" are also subject to certain manner of sale provisions, notice requirements and to the availability of current public information about us. Notwithstanding the availability of Rule 144, the holders of substantially all of our restricted securities have entered into lock-up agreements as referenced above and their restricted securities will become eligible for sale (subject to the above limitations under Rule 144) upon the expiration of the restrictions set forth in those agreements.

Rule 701

In general, under Rule 701 as currently in effect, any of our employees, directors, officers, consultants or advisors who acquired common stock from us in connection with a written compensatory stock or option plan or other written agreement in compliance with Rule 701 under the Securities Act before the effective date of the registration statement of which this prospectus is a part (to the extent such common stock is not subject to a lock-up agreement) and who are not our "affiliates" as defined in Rule 144 during the immediately preceding 90 days, is entitled to rely on Rule 701 to resell such shares beginning 90 days after the date of this prospectus in reliance on Rule 144, but without complying with the notice, manner of sale, public information requirements or volume limitation provisions of Rule 144. Persons who are our "affiliates" may resell those shares beginning 90 days after the date of this prospectus without compliance with Rule 144's minimum holding period requirements (subject to the terms of the lock-up agreement referred to below, if applicable).

Registration Rights

Based on the number of shares outstanding as of December 31, 2015 and after taking into account the issuance of an aggregate of (x) 301,152 shares of our common stock in January 2016 and (y) the conversion of all 11,819 outstanding shares of Series A preferred stock into shares of common stock immediately prior to the closing of this offering (assuming an initial public offering price of per share, the midpoint of the price range set forth on the cover page of this prospectus), after the consummation of this offering, the holders of approximately shares of our common stock, or their transferees, will, subject to any lock-up agreements they have entered into, be entitled to certain rights with respect to the registration of the offer and sale of those shares under the Securities Act. For a description of these registration rights, please see the section titled "Description of Capital Stock — Stockholder Registration Rights." If the offer and sale of these shares are registered, they will be freely tradable without restriction under the Securities Act immediately upon the effectiveness of the registration.

MATERIAL U.S. FEDERAL INCOME AND ESTATE TAX CONSIDERATIONS FOR NON-U.S. HOLDERS

The following is a general discussion of the material U.S. federal income and estate tax consequences of the acquisition, ownership and disposition of our common stock by "Non-U.S. Holders" (as defined below). This discussion is for general information purposes only and does not consider all aspects of U.S. federal income taxation that may be relevant to particular Non-U.S. Holders in light of their individual circumstances or to certain types of Non-U.S. Holders subject to special tax rules, including partnerships or other pass-through entities for U.S. federal income tax purposes, banks, financial institutions or other financial services entities, foreign governments or governmental entities, brokers or dealers in securities or currencies, insurance companies, tax-exempt organizations, pension plans, real estate investment trusts, controlled foreign corporations, passive foreign investment companies, corporations that accumulate earnings to avoid U.S. federal income tax, persons who use or are required to use mark-to-market accounting, persons that hold our shares as part of a "straddle," a "hedge," a "conversion transaction," "synthetic security," integrated investment or other risk reduction strategy, certain former citizens or permanent residents of the United States, persons who hold or receive shares of our common stock pursuant to the exercise of an employee stock option or otherwise as compensation, or investors in pass-through entities (or entities that are treated as disregarded entities for U.S. federal income tax purposes). In addition, this discussion does not address, except to the extent discussed below, the effects of any applicable gift or estate tax, and this discussion does not address the potential application of alternative minimum tax, or any tax considerations that may apply to Non-U.S. Holders of our common stock under state, local or non-U.S. tax laws and any other U.S. federal tax laws.

This discussion is based on the Internal Revenue Code of 1986, as amended, or the Code, and applicable Treasury Regulations, rulings, administrative pronouncements and judicial decisions that are issued and available as of the date of this registration statement, all of which are subject to change or differing interpretations at any time with possible retroactive effect. We have not sought, and will not seek, any ruling from the Internal Revenue Service, or the IRS, with respect to the tax consequences discussed herein, and there can be no assurance that the IRS will not take a position contrary to the tax consequences discussed below or that any position taken by the IRS would not be sustained. This discussion is limited to a Non-U.S. Holder who will hold our common stock as a capital asset within the meaning of the Code (generally, property held for investment). For purposes of this discussion, the term "Non-U.S. Holder" means a beneficial owner of our shares that is not a partnership (or entity or arrangement treated as a partnership for U.S. federal income tax purposes) and is not:

- an individual who is a citizen or resident of the United States;
- a corporation (or other entity treated as a corporation) created or organized in the United States or under the laws of the United States or of any state thereof or the District of Columbia;
- an estate, the income of which is subject to U.S. federal income tax regardless of its source; or
- a trust if (1) a court within the United States can exercise primary supervision over the trust's administration and one or more U.S. persons have the authority to control all of the trust's substantial decisions or (2) the trust has a valid election in effect under applicable U.S. Treasury Regulations to be treated as a U.S. person.

If a partnership (or entity or arrangement treated as a partnership for U.S. federal income tax purposes) is a beneficial owner of our common stock, the tax treatment of such partnership and a partner in such partnership generally will depend upon the status of the partner and the activities of the partnership. If you are a partner of a partnership holding our shares, you should consult your tax advisor regarding the tax consequences of the purchase, ownership and disposition of our common stock.

THIS SUMMARY IS NOT INTENDED TO BE TAX ADVICE. PROSPECTIVE INVESTORS SHOULD CONSULT THEIR TAX ADVISORS REGARDING THE PARTICULAR U.S. FEDERAL INCOME TAX CONSEQUENCES TO THEM OF ACQUIRING, OWNING AND DISPOSING OF OUR COMMON STOCK, AS WELL AS ANY TAX CONSEQUENCES ARISING UNDER ANY STATE, LOCAL OR FOREIGN TAX LAWS AND ANY OTHER U.S. FEDERAL TAX LAWS.

Distributions on Our Common Stock

In general, subject to the discussion below under the headings "Information Reporting and Backup Withholding" and "Foreign Accounts," distributions, if any, paid on our common stock to a Non-U.S. Holder (to the extent paid out of our current or accumulated earnings and profits, as determined under U.S. federal income tax principles) will constitute dividends and be subject to U.S. withholding tax at a rate equal to 30% of the gross amount of the dividend, or a lower rate prescribed by an applicable income tax treaty, unless the dividends are effectively connected with a trade or business carried on by the Non-U.S. Holder within the United States. The portion of any distribution that exceeds our current and accumulated earnings and profits will be treated first as reducing the Non-U.S. Holder's basis in its shares of common stock, but not below zero, and to the extent it exceeds the Non-U.S. Holder's basis, as gain from the sale or exchange of our common stock (see "Gain on Sale, Exchange or Other Taxable Disposition of Common Stock" below).

A Non-U.S. Holder who claims the benefit of an applicable income tax treaty generally will be required to satisfy certain certification and other requirements prior to the distribution date. Such Non-U.S. Holders must generally provide us or our paying agent with a properly executed IRS Form W-8BEN or IRS Form W-8BEN-E (or other appropriate form) claiming an exemption from or reduction in withholding under an applicable income tax treaty. Such certificate must be provided before the payment of dividends and must be updated periodically. If tax is withheld in an amount in excess of the amount applicable under an income tax treaty, a refund of the excess amount may generally be obtained by a Non-U.S. Holder by timely filing an appropriate claim for refund with the IRS. Non-U.S. Holders should consult their tax advisors regarding their entitlement to benefits under an applicable income tax treaty.

Dividends that are effectively connected with a Non-U.S. Holder's conduct of a U.S. trade or business generally will not be subject to the 30% U.S. withholding tax if the Non-U.S. Holder files the required forms, including IRS Form W-8ECI, with us or our paying agent. Instead, such a Non-U.S. Holder generally will be subject to U.S. federal income tax on those dividends on a net income basis at regular graduated rates in the same manner as if the Non-U.S. Holder were a resident of the United States (except to the extent provided in an applicable income tax treaty, which may require that such dividends be attributable to a U.S. permanent establishment or fixed base in order to be subject to tax as described herein). A corporate Non-U.S. Holder that receives effectively connected dividends may be subject to an additional branch profits tax at a rate of 30% (or such lower rate as may be prescribed by an applicable income tax treaty) on its effectively connected earnings and profits, as adjusted under the Code.

Gain on Sale, Exchange or Other Disposition of Our Common Stock

In general, subject to the discussion below under the headings "Information Reporting and Backup Withholding" and "Foreign Accounts," a non-U.S. holder will not be subject to U.S. federal income tax or withholding tax on any gain realized upon such holder's sale, exchange or other disposition of shares of our common stock unless:

- the gain is effectively connected with a trade or business carried on by the Non-U.S. Holder within the United States (and, if required by an applicable income tax treaty, attributable to a U.S. permanent establishment or fixed base of the Non-U.S. Holder);
- (2) the Non-U.S. Holder is an individual who is present in the United States for 183 days or more in the taxable year of disposition and certain other conditions are met: or
- (3) we are or have been a "United States real property holding corporation" for U.S. federal income tax purposes at any time during the shorter of the five year period ending on the date of disposition or the period that the Non-U.S. Holder held the common stock, and, in the case where shares of our common stock are regularly traded on an established securities market, the Non-U.S. Holder owns, or is treated as owning, more than 5% of our common stock at any time during the foregoing period.

Net gain realized by a Non-U.S. Holder that is described in clause (1) above generally will be subject to the regular graduated U.S. federal income tax rates in the same manner as if the Non-U.S. Holder were a resident of the United States. Any gains of a corporate Non-U.S. Holder described in clause (1) above may also be subject to an additional "branch profits tax" at a 30% rate (or such lower rate as may be specified by an applicable income tax treaty) on its effectively connected earnings and profits, as adjusted under the Code.

Gain realized by an individual Non-U.S. Holder described in clause (2) above will be subject to a flat 30% tax, which gain may be offset by U.S. source capital losses, even though the individual is not considered a resident of the United States.

For purposes of clause (3) above, a corporation generally is a United States real property holding corporation, or USRPHC, if the fair market value of its United States real property interests equals or exceeds 50% of the sum of the fair market value of its worldwide real property interests plus its other assets used or held for use in a trade or business. We believe that we are not, and we do not anticipate that we will become, a USRPHC. However, because the determination of whether we are a USRPHC depends on the fair market value of our U.S. real property interests relative to the fair market value of our other business assets, there can be no assurance that we will not become a USRPHC in the future. Even if we became a USRPHC, a Non-U.S. Holder would not be subject to U.S. federal income tax on a sale, exchange or other taxable disposition of our common stock by reason of our status as an USRPHC so long as our common stock is regularly traded on an established securities market (within the meaning of the applicable regulations) and such Non-U.S. Holder does not own and is not deemed to own (directly, indirectly or constructively) more than 5% of our outstanding common stock at any time during the shorter of the five year period ending on the date of disposition and such holder's holding period. However, no assurance can be provided that our common stock will be regularly traded on an established securities market for purposes of the rules described above. Prospective investors are encouraged to consult their own tax advisors regarding the possible consequences to them if we are, or were to become, a USRPHC.

Information Reporting and Backup Withholding

Generally, we must report annually to the IRS and to each Non-U.S. Holder the amount of dividends paid, the name and address of the recipient, and the amount, if any, of tax withheld. These information reporting requirements apply even if withholding was not required because the dividends were effectively connected with the Non-U.S. Holder's conduct of a trade or business within the United States or withholding was reduced by an applicable income tax treaties or other agreements, the IRS may make its reports available to the tax authorities in the Non-U.S. Holder's country of residence or country in which the Non-U.S. Holder was established.

Dividends paid to a Non-U.S. Holder that is not an exempt recipient generally will be subject to backup withholding, currently at a rate of 28%, unless the Non-U.S. Holder certifies to the payor as to its foreign status, which certification may generally be made on an applicable IRS Form W-8.

Proceeds from the sale or other disposition of common stock by a Non-U.S. Holder effected by or through a U.S. office of a broker will generally be subject to information reporting and backup withholding, currently at a rate of 28%, unless the Non-U.S. Holder certifies to the withholding agent under penalties of perjury as to, among other things, its name, address and status as a Non-U.S. Holder or otherwise establishes an exemption. Payment of disposition proceeds effected outside the United States by or through a non-U.S. office of a non-U.S. broker generally will not be subject to information reporting or backup withholding if the payment is not received in the United States. Information reporting, but generally not backup withholding, will apply to such a payment if the broker has certain connections with the United States unless the broker has documentary evidence in its records that the beneficial owner thereof is a Non-U.S. Holder and specified conditions are met or an exemption is otherwise established.

Backup withholding is not an additional tax. Any amount withheld under the backup withholding rules from a payment to a Non-U.S. Holder that results in an overpayment of taxes generally will be refunded, or credited against the holder's U.S. federal income tax liability, if any, provided that the required information is timely furnished to the IRS.

Foreign Accounts

A U.S. federal withholding tax of 30% may apply to dividends on, and the gross proceeds of, a disposition of our common stock paid to a "foreign financial institution" (as specially defined under applicable rules) unless such institution enters into an agreement with the U.S. government to withhold on certain payments and to collect and provide to the U.S. tax authorities substantial information regarding certain U.S. account holders of such institution (which includes certain equity holders of such institution, as well as certain account holders that are foreign entities with U.S. owners) or otherwise qualifies for an exemption from these rules. This U.S. federal withholding tax of 30% will also apply to payments of dividends on, and the gross proceeds of, a disposition of our common stock paid to a non-financial foreign entity (as specifically defined by applicable rules), unless such entity either certifies it does not have any substantial direct or indirect U.S. owners or provides the withholding agent with a certification identifying substantial direct and indirect U.S. owners of the entity or otherwise qualifies for an exemption from these rules. The withholding tax described above will not apply if the foreign financial institution or non-financial foreign entity otherwise qualifies for an exemption from the rules. Under certain circumstances, a Non-U.S. Holder might be eligible for refunds or credits of such taxes. The United States has entered into agreements with certain countries that modify these general rules for entities resident in those countries. Prospective investors are encouraged to consult with their own tax advisors regarding the possible implications of these rules on their investment in our common stock.

The withholding provisions described above currently apply to payments of dividends on our common stock and will apply to payments of gross proceeds from a sale or other disposition of our common stock by a foreign financial institution on or after January 1, 2019.

U.S. Federal Estate Tax

An individual who at the time of death is not a citizen or resident of the United States and who is treated as the owner of, or has made certain lifetime transfers of, an interest in our common stock will be required to include the value thereof in his or her taxable estate for U.S. federal estate tax purposes, and may be subject to U.S. federal estate tax unless an applicable estate tax treaty provides otherwise. The test for whether an individual is a resident of the United States for U.S. federal estate tax purposes differs from the test used for U.S. federal income tax purposes. Some individuals, therefore, may be "Non-U.S. Holders" for U.S. federal income tax purposes, but not for U.S. federal estate tax purposes, and vice versa.

UNDERWRITING

Subject to the terms and conditions set forth in the underwriting agreement, dated , 2016, between us, Jefferies LLC and Barclays Capital Inc., as the representatives of the underwriters named below, we have agreed to sell to the underwriters, and each of the underwriters has agreed, severally and not jointly, to purchase from us, the respective number of shares of common stock shown opposite its name below:

Underwriter	Number of Shares
Jefferies LLC	
Barclays Capital Inc.	
Cantor Fitzgerald & Co.	
Total	

The underwriting agreement provides that the obligations of the several underwriters are subject to certain conditions precedent such as the receipt by the underwriters of officers' certificates and legal opinions and approval of certain legal matters by their counsel. The underwriting agreement provides that the underwriters will purchase all of the shares of common stock if any of them are purchased. If an underwriter defaults, the underwriting agreement provides that the purchase commitments of the nondefaulting underwriters may be increased or the underwriting agreement may be terminated. We have agreed to indemnify the underwriters and certain of their controlling persons against certain liabilities, including liabilities under the Securities Act, and to contribute to payments that the underwriters may be required to make in respect of those liabilities.

The underwriters have advised us that, following the pricing of this offering, they currently intend to make a market in the common stock as permitted by applicable laws and regulations. However, the underwriters are not obligated to do so, and the underwriters may discontinue any market-making activities at any time without notice in their sole discretion. Accordingly, no assurance can be given as to the liquidity of the trading market for the common stock, that you will be able to sell any of the common stock held by you at a particular time or that the prices that you receive when you sell will be

The underwriters are offering the shares of common stock subject to their acceptance of the shares of common stock from us and subject to prior sale. The underwriters reserve the right to withdraw, cancel or modify offers to the public and to reject orders in whole or in part.

Commission and Expenses

The underwriters have advised us that they propose to offer the shares of common stock to the public at the initial public offering price set forth on the cover page of this prospectus and to certain dealers, which may include the underwriters, at that price less a concession not in excess of \$ per share of common stock. The underwriters may allow, and certain dealers may reallow, a discount from the concession not in excess of \$ per share of common stock to certain brokers and dealers. Certain of the underwriters may sell shares through one or more of their affiliates as selling agents. After the offering, the initial public offering price, concession and reallowance to dealers may be reduced by the representatives. No such reduction will change the amount of proceeds to be received by us as set forth on the cover page of this prospectus.

The following table shows the public offering price, the underwriting discounts and commissions that we are to pay the underwriters and the proceeds, before expenses, to us in connection with this offering. Such amounts are shown assuming both no exercise and full exercise of the underwriters' option to purchase additional shares.

		Total	
	Per Share	Without Option to Purchase Additional Shares	With Option to Purchase Additional Shares
Public offering price	\$	\$	\$
Underwriting discounts and commissions paid by us	\$	\$	\$
Proceeds to us, before expenses	\$	\$	\$

We estimate expenses payable by us in connection with this offering, other than the underwriting discounts and commissions referred to above, will be approximately \$. We have also agreed to reimburse the underwriters for certain expenses, including an amount not to exceed \$ in connection with the clearance of this offering with the Financial Industry Regulatory Authority, as set forth in the underwriting agreement.

Determination of Offering Price

Prior to this offering, there has not been a public market for our common stock. Consequently, the initial public offering price for our common stock will be determined by negotiations between us and the representatives. Among the factors to be considered in these negotiations will be prevailing market conditions, our financial information, market valuations of other companies that we and the underwriters believe to be comparable to us, estimates of our business potential, the present state of our development and other factors deemed relevant.

We offer no assurances that the initial public offering price will correspond to the price at which the common stock will trade in the public market subsequent to the offering or that an active trading market for the common stock will develop and continue after the offering.

Listing

We have applied to have our common stock approved for listing on The NASDAQ Global Market under the trading symbol "ONS."

Stamp Taxes

If you purchase shares of common stock offered in this prospectus, you may be required to pay stamp taxes and other charges under the laws and practices of the country of purchase, in addition to the offering price listed on the cover page of this prospectus.

Option to Purchase Additional Shares

We have granted to the underwriters an option, exercisable for 30 days from the date of this prospectus, to purchase, from time to time, in whole or in part, up to an aggregate of shares from us at the public offering price set forth on the cover page of this prospectus, less underwriting discounts and commissions. If the underwriters exercise this option, each underwriter will be obligated, subject to specified conditions, to purchase a number of additional shares proportionate to that underwriter's initial purchase commitment as indicated in the table above. This option may be exercised only if the underwriters sell more shares than the total number set forth on the cover page of this prospectus.

Directed Share Program

At our request, the underwriters have reserved shares of our common stock, or 5% of the shares being offered by this prospectus (excluding the shares of common stock that may be issued upon the underwriters' exercise of their over-allotment option to purchase additional shares) for sale at the initial public offering price, to employees, executive officers, directors, stockholders, business associates, persons related to the company and our affiliates and their friends and family through a directed share program. The number of shares of our common stock available for sale to the general public in the public offering will be reduced by the number of shares these individuals purchase. Any reserved shares that are not so purchased will be offered by the underwriters to the general public on the same basis as the other shares offered hereby. Each person buying shares through the directed share program will be subject to the same 180-day lock-up period described above. We have agreed to indemnify the underwriter conducting the directed share program against certain liabilities and expenses, including liabilities under the Securities Act, in connection with the directed share program.

No Sales of Similar Securities

We, our officers, directors and holders of all or substantially all our outstanding capital stock have agreed, subject to specified exceptions, not to directly or indirectly, offer, sell, contract to sell, pledge or otherwise dispose of, (or enter into any transaction which is designed to, or might reasonably be expected to, result in the disposition (whether by actual disposition or effective economic disposition due to cash settlement or otherwise) by such shareholder or any affiliate of such shareholder or any person in privity with such shareholder or any affiliate of such shareholder), directly or indirectly, including the filing (or participation in the filing) of a registration statement with the Securities and Exchange Commission,

or the SEC, in respect of, or establish or increase a put equivalent position or liquidate or decrease a call equivalent position within the meaning of Section 16 of the Securities Exchange Act of 1934, as amended, and the rules and regulations of the SEC promulgated thereunder with respect to, any shares of capital stock of the Company or any securities convertible into, or exercisable or exchangeable for such capital stock, or publicly announce an intention to effect any such transaction, for a period from the date hereof until 180 days after the date of the underwriting agreement.

Jefferies LLC and Barclays Capital Inc. may, in their discretion and at any time or from time to time before the termination of the 180-day period, release all or any portion of the securities subject to lock-up agreements. There are no existing agreements between the underwriters and any of our shareholders who will execute a lock-up agreement, providing consent to the sale of shares prior to the expiration of the lock-up period.

Stabilization

The underwriters have advised us that they, pursuant to Regulation M under the Securities Exchange Act of 1934, as amended, certain persons participating in the offering may engage in short sale transactions, stabilizing transactions, syndicate covering transactions or the imposition of penalty bids in connection with this offering. These activities may have the effect of stabilizing or maintaining the market price of the common stock at a level above that which might otherwise prevail in the open market. Establishing short sales positions may involve either "covered" short sales or "naked" short

"Covered" short sales are sales made in an amount not greater than the underwriters' option to purchase additional shares of our common stock in this offering. The underwriters may close out any covered short position by either exercising their option to purchase additional shares of our common stock or purchasing shares of our common stock in the open market. In determining the source of shares to close out the covered short position, the underwriters will consider, among other things, the price of shares available for purchase in the open market as compared to the price at which they may purchase shares through the option to purchase additional shares.

"Naked" short sales are sales in excess of the option to purchase additional shares of our common stock. The underwriters must close out any naked short position by purchasing shares in the open market. A naked short position is more likely to be created if the underwriters are concerned that there may be downward pressure on the price of the shares of our common stock in the open market after pricing that could adversely affect investors who purchase in this offering.

A stabilizing bid is a bid for the purchase of shares of common stock on behalf of the underwriters for the purpose of fixing or maintaining the price of the common stock. A syndicate covering transaction is the bid for or the purchase of shares of common stock on behalf of the underwriters to reduce a short position incurred by the underwriters in connection with the offering. Similar to other purchase transactions, the underwriter's purchases to cover the syndicate short sales may have the effect of raising or maintaining the market price of our common stock or preventing or retarding a decline in the market price of our common stock may be higher than the price that might otherwise exist in the open market. A penalty bid is an arrangement permitting the underwriters to reclaim the selling concession otherwise accruing to a syndicate member in connection with the offering if the common stock originally sold by such syndicate member are purchased in a syndicate covering transaction and therefore have not been effectively placed by such syndicate member.

Neither we, nor any of the underwriters make any representation or prediction as to the direction or magnitude of any effect that the transactions described above may have on the price of our common stock. The underwriters are not obligated to engage in these activities and, if commenced, any of the activities may be discontinued at any time.

Electronic Distribution

A prospectus in electronic format may be made available by e-mail or on the websites or through online services maintained by one or more of the underwriters or their affiliates. In those cases, prospective investors may view offering terms online and may be allowed to place orders online. The underwriters may agree with us to allocate a specific number of shares of common stock for sale to online brokerage account holders. Any such allocation for online distributions will be made by the underwriters on the same basis as other allocations. Other than the prospectus in electronic format, the information on the underwriters' websites and any information contained in any other website maintained by any of the underwriters is not part of this prospectus, has not been approved and/or endorsed by us or the underwriters and should not be relied upon by investors.

Other Activities and Relationships

The underwriters and certain of their affiliates are full service financial institutions engaged in various activities, which may include securities trading, commercial and investment banking, financial advisory, investment management, investment

research, principal investment, hedging, financing and brokerage activities. The underwriters and certain of their affiliates have, from time to time, performed, and may in the future perform, various commercial and investment banking and financial advisory services for us and our affiliates, for which they received or will receive customary fees and expenses.

In the ordinary course of their various business activities, the underwriters and certain of their affiliates may make or hold a broad array of investments and actively trade debt and equity securities (or related derivative securities) and financial instruments (including bank loans) for their own account and for the accounts of their customers, and such investment and securities activities may involve securities and/or instruments issued by us and our affiliates. If the underwriters or their respective affiliates have a lending relationship with us, they routinely hedge their credit exposure to us consistent with their customary risk management policies. The underwriters and their respective affiliates may hedge such exposure by entering into transactions which consist of either the purchase of credit default swaps or the creation of short positions in our securities or the securities of our affiliates, including potentially the common stock offered hereby. Any such short positions could adversely affect future trading prices of the common stock offered hereby. The underwriters and certain of their respective affiliates may also communicate independent investment recommendations, market color or trading ideas and/or publish or express independent research views in respect of such securities or instruments and may at any time hold, or recommend to clients that they acquire, long and/or short positions in such securities and instruments.

Selling Restrictions

Australia

This prospectus is not a disclosure document for the purposes of Australia's Corporations Act 2001 (Cth) of Australia, or Corporations Act, has not been lodged with the Australian Securities & Investments Commission and is only directed to the categories of exempt persons set out below. Accordingly, if you receive this prospectus in Australia:

You confirm and warrant that you are either:

- a "sophisticated investor" under section 708(8)(a) or (b) of the Corporations Act;
- a "sophisticated investor" under section 708(8)(c) or (d) of the Corporations Act and that you have provided an
 accountant's certificate to the Company which complies with the requirements of section 708(8)(c)(i) or (ii) of the
 Corporations Act and related regulations before the offer has been made;
- a person associated with the Company under Section 708(12) of the Corporations Act; or
- a "professional investor" within the meaning of section 708(11)(a) or (b) of the Corporations Act.

To the extent that you are unable to confirm or warrant that you are an exempt sophisticated investor, associated person or professional investor under the Corporations Act any offer made to you under this prospectus is void and incapable of acceptance.

You warrant and agree that you will not offer any of the securities issued to you pursuant to this prospectus for resale in Australia within 12 months of those securities being issued unless any such resale offer is exempt from the requirement to issue a disclosure document under section 708 of the Corporations Act.

Canada

The offering of our common shares in Canada is being made on a private placement basis in reliance on exemptions from the prospectus requirements under the securities laws of each applicable Canadian province and territory where the common shares may be offered and sold, and therein may only be made with investors that are purchasing as principal and that qualify as both an accredited investor, as such term is defined in National Instrument 45-106 Prospectus and Registration Exemptions and as a permitted client, as such term is defined in National Instrument 31-103 Registration Requirements, Exemptions and Ongoing Registrant Obligation. Any offer and sale of our common shares in any province or territory of Canada may only be made through a dealer that is properly registered under the securities legislation of the applicable province or territory wherein our common shares are offered and/or sold or, alternatively, by a dealer that qualifies under and is relying upon an exemption from the registration requirements therein.

Any resale of our common shares by an investor resident in Canada must be made in accordance with applicable Canadian securities laws, which may require resales to be made in accordance with prospectus and registration requirements, statutory exemptions from the prospectus and registration requirements or under a discretionary exemption from the prospectus and registration requirements granted by the applicable Canadian securities regulatory authority. These resale restrictions may under certain circumstances apply to resales of our common shares outside of Canada.

Upon receipt of this document, each Canadian investor hereby confirms that it has expressly requested that all documents evidencing or relating in any way to the sale of the securities described herein (including for greater certainty any purchase

confirmation or any notice) be drawn up in the English language only. Par la réception de ce document, chaque investisseur canadien confirme par les présentes qu'il a expressément exigé que tous les documents faisant foi ou se rapportant de quelque manière que ce soit à la vente des valeurs mobilières décrites aux présentes (incluant, pour plus de certitude, toute confirmation d'achat ou tout avis) soient rédigés en anglais seulement.

European Economic Area

In relation to each member state of the European Economic Area which has implemented the Prospectus Directive (each, a "Relevant Member State"), an offer to the public of any common shares which are the subject of the offering contemplated by this prospectus may not be made in that Relevant Member State except that an offer to the public in that Relevant Member State of any common shares may be made at any time under the following exemptions under the Prospectus Directive, if they have been implemented in that Relevant Member State:

- to any legal entity which is a "qualified investor" as defined in the Prospectus Directive;
- to fewer than 100 or, if the Relevant Member State has implemented the relevant provision of the 2010 PD Amending Directive, 150, natural or legal persons (other than qualified investors as defined in the Prospectus Directive), as permitted under the Prospectus Directive, subject to obtaining the prior consent of the underwriters or the underwriters nominated by us for any such offer; or
- in any other circumstances falling within Article 3(2) of the Prospectus Directive,

provided that no such offer of common shares shall require us or any of the underwriters to publish a prospectus pursuant to Article 3 of the Prospectus Directive or supplement a prospectus pursuant to Article 16 of the Prospectus Directive.

For the purposes of this provision, the expression an "offer common shares to the public" in relation to the common shares in any Relevant Member State means the communication in any form and by any means of sufficient information on the terms of the offer and the common shares to be offered so as to enable an investor to decide to purchase or subscribe to the common shares, as the same may be varied in that Relevant Member State by any measure implementing the Prospectus Directive in that Relevant Member State and the expression "Prospectus Directive" means Directive 2003/71/EC (and amendments thereto, including the 2010 PD Amending Directive, to the extent implemented in the Relevant Member State), and includes any relevant implementing measure in the Relevant Member State and the expression "2010 PD Amending Directive" means Directive 2010/73/EU.

Hong Kong

No securities have been offered or sold, and no securities may be offered or sold, in Hong Kong, by means of any document, other than to persons whose ordinary business is to buy or sell shares or debentures, whether as principal or agent; or to "professional investors" as defined in the Securities and Futures Ordinance (Cap. 571) of Hong Kong ("SFO") and any rules made under that Ordinance; or in other circumstances which do not result in the document being a "prospectus" as defined in the Companies Ordinance (Cap. 32) of Hong Kong ("CO") or which do not constitute an offer or invitation to the public for the purpose of the CO or the SFO. No document, invitation or advertisement relating to the securities has been issued or may be issued or may be in the possession of any person for the purpose of issue (in each case whether in Hong Kong or elsewhere), which is directed at, or the contents of which are likely to be accessed or read by, the public of Hong Kong (except if permitted under the securities laws of Hong Kong) other than with respect to securities which are or are intended to be disposed of only to persons outside Hong Kong or only to "professional investors" as defined in the SFO and any rules made under that Ordinance.

This prospectus has not been registered with the Registrar of Companies in Hong Kong. Accordingly, this prospectus may not be issued, circulated or distributed in Hong Kong, and the securities may not be offered for subscription to members of the public in Hong Kong. Each person acquiring the securities will be required, and is deemed by the acquisition of the securities, to confirm that he is aware of the restriction on offers of the securities described in this prospectus and the relevant offering documents and that he is not acquiring, and has not been offered any securities in circumstances that contravene any such restrictions.

Japan

The offering has not been and will not be registered under the Financial Instruments and Exchange Law of Japan (Law No. 25 of 1948 of Japan, as amended), or FIEL, and the Initial Purchaser will not offer or sell any securities, directly or indirectly, in Japan or to, or for the benefit of, any resident of Japan (which term as used herein means any person resident in Japan, including any corporation or other entity organized under the laws of Japan), or to others for re-offering or resale, directly or indirectly, in Japan or to, or for the benefit of, any resident of Japan, except pursuant to an exemption from the registration requirements of, and otherwise in compliance with, the FIEL and any other applicable laws, regulations and ministerial guidelines of Japan.

Singapore

This prospectus has not been and will not be lodged or registered as a prospectus with the Monetary Authority of Singapore. Accordingly, this prospectus and any other document or material in connection with the offer or sale, or invitation for subscription or purchase, of the common stock may not be circulated or distributed, nor may the common stock be offered or sold, or be made the subject of an invitation for subscription or purchase, whether directly or indirectly, to persons in Singapore other than (i) to an institutional investor under Section 274 of the Securities and Futures Act, Chapter 289 of Singapore (the "SFA"), (ii) to a relevant person pursuant to Section 275(1A), and in accordance with the conditions specified in Section 275, of the SFA, or (iii) otherwise pursuant to, and in accordance with the conditions of, any other applicable provision of the SFA.

Where the common stock is subscribed or purchased under Section 275 of the SFA by a relevant person which is:

- a corporation (which is not an accredited investor (as defined in Section 4A of the SFA)) the sole business of
 which is to hold investments and the entire share capital of which is owned by one or more individuals, each of
 whom is an accredited investor; or
- a trust (where the trustee is not an accredited investor) whose sole purpose is to hold investments and each beneficiary of the trust is an individual who is an accredited investor, securities (as defined in Section 239(1) of the SFA) of that corporation or the beneficiaries' rights and interest (howsoever described) in that trust shall not be transferred within six months after that corporation or that trust has acquired the common stock pursuant to an offer made under Section 275 of the SFA except:
- to an institutional investor or to a relevant person defined in Section 275(2) of the SFA, or to any person arising from an offer referred to in Section 275(1A) or Section 276(4)(i)(B) of the SFA;
- where no consideration is or will be given for the transfer;
- where the transfer is by operation of law;
- as specified in Section 276(7) of the SFA; or
- as specified in Regulation 32 of the Securities and Futures (Offers of Investments) (Shares and Debentures)
 Regulations 2005 of Singapore.

Switzerland

The securities may not be publicly offered in Switzerland and will not be listed on the SIX Swiss Exchange ("SIX") or on any other stock exchange or regulated trading facility in Switzerland. This prospectus has been prepared without regard to the disclosure standards for issuance prospectuses under art. 652a or art. 1156 of the Swiss Code of Obligations or the disclosure standards for listing prospectuses under art. 27 ff. of the SIX Listing Rules or the listing rules of any other stock exchange or regulated trading facility in Switzerland. Neither this prospectus nor any other offering or marketing material relating to the securities or the offering may be publicly distributed or otherwise made publicly available in Switzerland.

Neither this prospectus nor any other offering or marketing material relating to the offering, the Company or the securities have been or will be filed with or approved by any Swiss regulatory authority. In particular, this prospectus will not be filed with, and the offer of securities will not be supervised by, the Swiss Financial Market Supervisory Authority FINMA, and the offer of securities has not been and will not be authorized under the Swiss Federal Act on Collective Investment Schemes ("CISA"). The investor protection afforded to acquirers of interests in collective investment schemes under the CISA does not extend to acquirers of securities.

United Kingdom

This prospectus is only being distributed to, and is only directed at, persons in the United Kingdom that are qualified investors within the meaning of Article 2(1)(e) of the Prospectus Directive that are also (i) investment professionals falling within Article 19(5) of the Financial Services and Markets Act 2000 (Financial Promotion) Order 2005, as amended (the "Order") and/or (ii) high net worth entities falling within Article 49(2)(a) to (d) of the Order and other persons to whom it may lawfully be communicated (each such person being referred to as a "relevant person").

This prospectus and its contents are confidential and should not be distributed, published or reproduced (in whole or in part) or disclosed by recipients to any other persons in the United Kingdom. Any person in the United Kingdom that is not a relevant person should not act or rely on this document or any of its contents.

LEGAL MATTERS

The validity of the issuance of our common stock offered in this prospectus will be passed upon for us by Cooley LLP, New York, New York. Certain legal matters in connection with this offering will be passed upon for the underwriters by Goodwin Procter LLP, New York, New York.

EXPERTS

The consolidated financial statements of Oncobiologics, Inc. as of September 30, 2014 and 2015 and for the years then ended have been included in this prospectus in reliance upon the report of KPMG LLP, independent registered public accounting firm, appearing elsewhere herein, and upon the authority of said firm as experts in accounting and auditing. The audit report covering the September 30, 2015 consolidated financial statements contains an explanatory paragraph that states that the Company has incurred recurring losses and negative cash flows from operations since inception and has an accumulated deficit at September 30, 2015 of \$94.1 million and \$14.2 million of indebtedness that is due on demand, which raises substantial doubt about the Company's ability to continue as a going concern. The consolidated financial statements do not include any adjustments that might result from the outcome of that uncertainty.

WHERE YOU CAN FIND ADDITIONAL INFORMATION

We have filed with the SEC a registration statement on Form S-1 under the Securities Act with respect to the shares of common stock being offered by this prospectus. This prospectus does not contain all of the information in the registration statement and its exhibits. For further information about us and the common stock offered by this prospectus, we refer you to the registration statement and its exhibits. Statements contained in this prospectus as to the contents of any contract or any other document referred to are not necessarily complete, and in each instance, we refer you to the copy of the contract or other document filed as an exhibit to the registration statement. Each of these statements is qualified in all respects by this reference.

You can read our SEC filings, including the registration statement, over the Internet at the SEC's website at http://www.sec.gov. You may also read and copy any document we file with the SEC at its public reference facilities at 100 F Street, NE, Washington, D.C. 20549. You may also obtain copies of these documents at prescribed rates by writing to the Public Reference Section of the SEC at 100 F Street, NE, Washington, D.C. 20549. Please call the SEC at 1-800-SEC-0330 for further information on the operation of the public reference facilities.

Upon the closing of this offering, we will be subject to the information reporting requirements of the Exchange Act, and we will file reports, proxy statements and other information with the SEC. These reports, proxy statements and other information will be available for inspection and copying at the public reference room and web site of the SEC referred to above. We also maintain a website at www.oncobiologics.com, at which you may access these materials free of charge as soon as reasonably practicable after they are electronically filed with, or furnished to, the SEC. The information contained on, or that can be accessed through, our website is not a part of this prospectus. Investors should not rely on any such information in deciding whether to purchase our common stock. We have included our website address in this prospectus solely as an inactive textual reference.

ONCOBIOLOGICS, INC.

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Report of Independent Registered Public Accounting Firm

The Board of Directors and Stockholders Oncobiologics, Inc.:

We have audited the accompanying consolidated balance sheets of Oncobiologics, Inc. and Subsidiaries (the Company) as of September 30, 2014 and 2015, and the related consolidated statements of operations, redeemable preferred stock, common stock, noncontrolling interests and stockholders' equity (deficit), and cash flows for years then ended. The consolidated financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on these consolidated financial statements based on our audits.

We conducted our audits in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the financial position of Oncobiologics, Inc. and subsidiaries as of September 30, 2014 and 2015, and the results of their operations and their cash flows for the years then ended, in conformity with U.S. generally accepted accounting principles.

The accompanying consolidated financial statements have been prepared assuming the Company will continue as a going concern. As discussed in note 2 to the consolidated financial statements, the Company has incurred recurring losses and negative cash flows from operations since inception and has an accumulated deficit at September 30, 2015 of \$94.1 million and \$14.2 million of indebtedness that is due on demand, which raises substantial doubt about its ability to continue as a going concern. Management's plan in regards to these matters are also described in note 2. The consolidated financial statements do not include any adjustments that might result from the outcome of this uncertainty.

/s/ KPMG LLP

Philadelphia, Pennsylvania

November 16, 2015

Oncobiologics, Inc. Consolidated Balance Sheets

	_	Septen	ıber	30,
		2014		2015
Assets				
Current assets:				
Cash	\$	2.349.313	\$	9.070.97
Accounts receivable		· —		20,00
Stock subscription receivable		_		4,280,149
Prepaid and other current assets		797,279		1,793,10
Total current assets		3.146.592		15.164.23
Property and equipment, net		8,009,564		17,759,93
Restricted cash		211,452		213,66
Deferred offering costs				960,56
Other assets		236,099		910,22
Total assets	\$	11,603,707	\$	35,008,62
Liabilities, redeemable preferred stock, common stock, noncontrolling interests and stockholders'	÷		_	
equity (deficit)				
Current liabilities:				
Current portion of debt	\$	725,706	\$	742.64
Current portion of capital lease obligations	Ψ	132,090	Ψ	862.84
Current portion of stockholder notes		10,624,784		14,214,19
Accounts payable		3.101.445		11.563.05
Accrued expenses		2,560,279		5,924,64
Income taxes payable		1,564,411		1.754.62
Deferred revenue		1,501,416		1,979,57
Total current liabilities	_	20,210,131	_	37,041,59
	_		_	
Long-term debt		3,653,038		2,922,76
Capital lease obligations Stockholder notes		32,914		1,219,37
Deferred revenue		6,313,342		2,000,000 6,365,94
Stock-based compensation liability		1,557,789		12,726,72
		283,700		284,71
Other liabilities	_		_	
Total liabilities	_	32,050,914	_	62,561,113
Commitments (Note 9)				
Redeemable preferred stock, common stock and noncontrolling interests:				
Redeemable preferred stock, no par value:				
Series A – 8,000 shares authorized; 3,681 and 3,568 shares issued and outstanding at September 30,				
2014 and 2015, respectively; (liquidation preference of \$5,072,653 at September 30, 2015)		4.787.996		5,072,65
Series B - 4,000 shares authorized; 4,000 shares issued and outstanding; (liquidation preference of		, - ,		
\$5,118,208 at September 30, 2015)		4,589,872		5,118,20
Redeemable common stock – 6,000,000 shares issued and outstanding		12.225.096		15,426,67
Redeemable noncontrolling interests		3,101,047		1,703,77
Total redeemable preferred stock, common stock and noncontrolling interests	_	24,704,011	_	27,321,31
	_	24,104,011	-	21,021,01
Stockholders' equity (deficit):				
Common stock, no par value; 100,000,000 shares authorized; 26,464,231 and 32,555,266 shares issued and outstanding at September 30, 2014 and 2015, respectively; actual		_		39,844,900
Additional paid-in capital		_		_
Accumulated deficit	(45,151,218)		(94,064,28)
Total Oncobiologics, Inc. stockholders' equity (deficit)		45,151,218)		(54,219,38
Noncontrolling interests	,			(654,41
Total stockholders' equity (deficit)	-	(45,151,218)		(54,873,80
. , ,		 0,101,210)		(0+,010,00
Total liabilities, redeemable preferred stock, common stock, noncontrolling interests and stockholders' equity (deficit)	\$	11,603,707	\$	35,008,621

Oncobiologics, Inc. Consolidated Statements of Operations

	Year Ended September 30,			mber 30,
		2014		2015
Collaboration revenues	\$	9,050,542	\$	5,219,237
Operating expenses:				
Research and development		14,124,631		38,876,040
General and administrative		7,318,314		12,905,823
		21,442,945		51,781,863
Loss from operations		(12,392,403)		(46,562,626
Interest expense		901,052		2,297,339
Loss before income taxes		(13,293,455)		(48,859,965
Income tax expense (benefit)		439,018		(190,111
Net loss		(13,732,473)		(48,669,854
Less: Net loss attributable to noncontrolling interests		_		(1,276,571
Net loss attributable to Oncobiologics, Inc.		(13,732,473)		(47,393,283
Accretion of redeemable preferred stock and noncontrolling interests		(3,588,996)		(4,306,488
Deemed dividends upon the repurchase of Series A redeemable preferred stock and redeemable noncontrolling interests		(3,336,855)		(1,298,631
Net loss attributable to common stockholders of Oncobiologics, Inc.	\$	(20,658,324)	\$	(52,998,402
Per share information:			_	
Net loss per share of common stock, basic and diluted	\$	(0.70)	\$	(1.57
Weighted-average shares outstanding, basic and diluted	_	29,358,331		33,650,012
Pro forma net loss per share of common stock – basic and diluted (unaudited)	_			
Pro forma weighted average shares outstanding (unaudited)				

Oncobiologics, Inc. Consolidated Statements of Redeemable Preferred Stock, Common Stock, Noncontrolling Interests and Stockholders' Equity (Deficit)

	Re	deemable Pre	eferred S	tock, Commo	n Stock and	Noncontrollir	g Interests		Sto	ckholders' Equi	ty (Deficit)	
		Preferre	d Stock									
	Series A		Series B		Common Stock		Noncontrolling	Commo	n Stock	Accumulated	Noncontrolling	Total Stockholders'
	Shares	Amount	Shares	Amount	Shares	Amount	Interests	Shares	Amount	Deficit	Interests	Equity (Deficit)
Balance at October 1, 2013	6,995	\$ 8,226,922	3,600	\$3,067,039	_	\$ —	\$ 2,829,733	33,347,000	\$ —	\$(22,608,182)	\$—	\$ (22,608,182
Sale of redeemable common stock, net of issuance												
costs	_				6,000,000	10,895,000		_				_
Sale of Series B redeemable preferred stock and common												
stock, net of issuance costs	_	_	400	252,000	_	_	_	400,000	148,000	_	_	148,000
Issuance of restricted stock							_	313,500			_	
Repurchase of restricted stock in exchange for notes payable	_	_	_	_	_	_	_	(2,195,500)	(148,000)	(949,750)	_	(1,097,750
Exchange of restricted stock for								(2,200,000)	(2 10,000)	(0.0,.00)		(2,001,100
performance-based stock units	_	_	_	_	_	_	_	(2,078,500)	_	_	_	_
Reclassification of equity classified stock-based compensation	_	_	_	_	_	_	_	_	_	(364,187)	_	(364,187
Employee tax witholdings related to the vesting of restricted stock	_	_	_	_	_	_	_	(9,769)	_	(23,153)	_	(23,153
Repurchase of common stock	_	_	_	_	_	_	_	(3,312,500)	_	(3,312,500)	_	(3,312,500
Repurchase of Series A redeemable preferred stock and deemed dividends	(3.314)	(4,155,679)	_	_	_	_	_	_	_	(3,336,855)	_	(3,336,855
Stock-based compensation	(0,014)	(4,100,010)								(0,000,000)		(0,000,000
expense	_	_	_	_	_	_	_	_	2,764,878	_	_	2,764,878
Accretion of redeemable preferred stock, common stock and												
noncontrolling interests	_	716,753		1,270,833	_	1,330,096	271,314	_	(2,764,878)	(824,118)	_	(3,588,996
Net loss								<u> </u>		(13,732,473)	<u>_</u>	(13,732,473
Balance at September 30, 2014	3,681	4,787,996	4,000	4,589,872	6,000,000	12,225,096	3,101,047	26,464,231	_	(45,151,218)	_	(45,151,218

Oncobiologics, Inc. Consolidated Statements of Redeemable Preferred Stock, Common Stock, Noncontrolling Interests and Stockholders' Equity (Deficit) (Continued)

	Re			ock, Commo	1 Stock and	Noncontrolling	Interests		Sto	ckholders' Equit	y (Deficit)	
		Preferred Stock Series A Series B		ries B	Commo	n Stock	Noncontrolling		n Stock	Accumulated	Noncontrolling	Total Stockholders'
	Shares	Amount	Shares	Amount	Shares	Amount	Interests	Shares	Amount	Deficit	Interests	Equity (Deficit)
Distribution of common stock in Sonnet Biotherapeutics, Inc. to stockholders	_	_	_	_	_	_	_	_	_	(221,154)	221,154	_
Contributions to noncontrolling interests	_	_	_	_	_	_	_	_	_	_	401,000	401,000
Repurchase of Series A redeemable preferred stock and deemed dividends	(113)	(142,370)	_	_	_	_	_	_	_	(83,631)	_	(83,631)
Repurchase of redeemable noncontrolling interests and deemed dividends	_	_	_	_	_	_	(1,546,818)	_	_	(1,215,000)	_	(1,215,000)
Forfeitures of restricted stock	_	_	_	_	_	_	_	_	_	_	_	_
Sale of common stock, net of issuance costs	_	_	_	_	_	_	_	6,091,035	44,142,463	_	_	44,142,463
Accretion of redeemable preferred stock, common stock and noncontrolling interests	_	427,027	_	528,336	_	3,201,577	149,548	_	(4,306,488)	_	_	(4,306,488)
Stock-based compensation expense	_	_	_	_	_	_	_	_	8,925	_	_	8,925
Net loss										(47,393,283)	(1,276,571)	(48,669,854)
Balance at September 30, 2015	3,568	\$5,072,653	4,000	\$5,118,208	6,000,000	\$15,426,673	\$ 1,703,777	32,555,266	\$39,844,900	\$(94,064,286)	\$ (654,417)	\$ (54,873,803)

Oncobiologics, Inc. Consolidated Statements of Cash Flows

	Year Ended S 2014	eptember 30, 2015
Operating activities:		
Net loss	\$ (13,732,473)	\$ (48,669,854)
Adjustments to reconcile net loss to net cash used in operating activities:	070 477	4 004 000
Depreciation and amortization	878,477	1,824,600
Non-cash interest expense	12,264	12,264
Stock-based compensation	3,958,480	11,177,858
Changes in operating assets and liabilities: Accounts receivable		(20,000
Prepaid expenses and other current assets	(719,302)	(1,021,852)
Other assets	(84,330)	(322,729)
Accounts payable	(96,403)	6,580,722
Accrued expenses	598,266	2,240,800
Income taxes payable	1,084,921	190,218
Deferred revenue	949,458	530,763
Other liabilities	130,173	1,010
Net cash used in operating activities	(7,020,469)	(27,476,200)
Investing activities:	(1,020,403)	(21,410,200)
Purchase of property and equipment	(2,366,772)	(8,804,244)
Net cash used in investing activities	(2,366,772)	(8,804,244)
Financing activities:		
Proceeds from the sale of Series B redeemable preferred stock	252,000	_
Repurchase of Series A redeemable preferred stock	(4,128,000)	(226,001)
Proceeds from the sale of redeemable common stock	10,895,000	_
Proceeds from the sale of common stock	148,000	41,249,998
Proceeds from the sale of equity in noncontrolling interest	_	401,000
Payments of capital leases obligations	(193,973)	(686,676)
Proceeds from debt	2,460,434	_
Repayment of debt	(753,531)	(725,598)
Proceeds from stockholder notes	6,000,000	10,880,252
Repayment of stockholder notes	(3,125,000)	(7,888,658)
Change in restricted cash	(3,383)	(2,211)
Payment of employee tax witholdings related to the vesting of restricted stock	(23,153)	` _
Payment of financing costs	(54,248)	_
Net cash provided by financing activities	11.474.146	43.002.106
Net increase in cash	2,086,905	6,721,662
Cash at beginning of year	262,408	2,349,313
Cash at end of year	\$ 2,349,313	\$ 9,070,975
•	Φ 2,349,313	\$ 9,070,975
Supplemental disclosure of cash flow information	Φ 017.005	ф. 1.400.000
Cash paid for interest	\$ 817,965	\$ 1,402,209
Cash paid for taxes	\$ 1,750	\$ 2,250
Supplemental schedule of noncash investing activities:		
Purchases of property and equipment in accounts payable and accrued expenses	\$ (215,907)	\$ (2,770,730)
Supplemental schedule of noncash financing activities:		
Accretion of redeemable preferred stock	\$ 3,588,996	\$ 4,306,488
Deemed dividend upon repurchase of Series A redeemable preferred stock in excess of carrying value	\$ (3,336,855)	\$ (1,298,631)
Reclassification of equity classified stock-based compensation	\$ (364,187)	\$ —
	\$ 4,410,250	\$ _
Issuance of notes upon repurchase of restricted stock and common stock		
Issuance of subscription receivable upon sale of common stock	\$ —	\$ (4,280,149)
Distribution of common stock in Sonnet Biotherapeutics Inc. to stockholders	\$ —	\$ (221,154)
Issuance of capital lease obligations in connection with purchase of property and equipment	\$ 215,908	\$ 2,603,894

1. Organization and Description of Business

Oncobiologics, Inc. ("Oncobiologics" or the "Company") was incorporated in New Jersey on January 5, 2010 and started operations in July 2011. Oncobiologics is a clinical-stage biopharmaceutical company focused on identifying, developing, manufacturing and commercializing complex biosimilar therapeutics in the disease areas of immunology and oncology. The Company has established fully integrated in-house development and manufacturing capabilities that addresses the numerous complex technical and regulatory challenges in developing and commercializing mAb biosimilars. Since inception, the Company has advanced two product candidates into clinical trials: a Phase 3-ready biosimilar to adalimumab (Humira®) and a Phase 3-ready biosimilar to bevacizumab (Avastin®). Additionally, the Company has six preclinical biosimilar product candidates under active development, two of which are expected to enter clinical trials in 2016

During 2011, the Company formed Parilis Biopharmaceuticals, LLC ("Parilis"), a New Jersey Limited Liability Company to which the Company owns 100% of Parilis's common member units. The Company entered into a licensing arrangement whereby Parilis was issued an exclusive right to commercialize the Company's Humira biosimilar product.

In April 2015, the Company spun-off certain assets unrelated to its biosimilar business through a pro rata distribution to its stockholders through a newly-formed subsidiary, Sonnet Biotherapeutics, Inc. ("Sonnet"). Concurrent with the Company's contribution of the assets relating to the innovation business of Sonnet, the Company distributed all of its shares of Sonnet to Oncobiologic's stockholders.

In October 2015, the Company reincorporated in Delaware through the merger with and into Oncobiologics, Inc., a newly formed Delaware corporation, with the Delaware corporation surviving the merger. As a result of the merger, each share of the Company's issued and outstanding common stock converted into and became a share of common stock of the Delaware corporation on a 1-for-1 basis, each share of Series A redeemable preferred stock converted into 1,000 shares of common stock and approximately 1.4035 shares of Series A preferred stock of the Delaware corporation, and each share of the Company's Series B redeemable preferred stock converted into 1,000 shares of common stock and approximately 1.2867 shares of Series A preferred stock of the Delaware corporation. Additionally, effective upon the reincorporation and in connection with the dissolution of Parilis, the Company issued 782,000 shares of common stock and 1,626 shares of Series A preferred stock to the holders of outstanding Parilis preferred member units in exchange for all such units.

2. Liquidity

The Company has incurred substantial losses and negative cash flows from operations since its inception and has an accumulated deficit of \$94.1 million and \$14.2 million of indebtedness that is due on demand, each as of September 30, 2015. These factors raise substantial doubt about the Company's ability to continue as a going concern. The accompanying financial statements have been prepared on a going concern basis, which contemplates the realization of assets and satisfaction of liabilities in the normal course of business. The consolidated financial statements do not include any adjustments related to the recoverability and classification of recorded asset amounts or the amounts and classification of liabilities that might result from the outcome of this uncertainty.

The Company has substantial indebtedness that includes \$14.2 million in notes payable to stockholders that are payable on demand. There can be no assurance that note holders will not exercise their right to demand repayment.

The Company anticipates incurring additional losses until such time, if ever, that it can generate significant sales of its products currently in development. Substantial additional financing will be needed by the Company to fund its operations and to commercially develop its product candidates. Management is currently evaluating different strategies to obtain the required funding for future operations. These strategies may include, but are not limited to: private placements of equity and/or debt, payments from potential strategic research and development, licensing and/or marketing arrangements with pharmaceutical companies, and public offerings of equity and/or debt securities. There can be no assurance that these future funding efforts will be successful.

The Company's future operations are highly dependent on a combination of factors, including (i) the timely and successful completion of additional financing discussed above; (ii) the Company's ability to complete revenue-generating partnerships with pharmaceutical companies; (iii) the success of its research and development; (iv) the development of competitive therapies by other biotechnology and pharmaceutical companies, and, ultimately; (v) regulatory approval and market acceptance of the Company's proposed future products.

3. Basis of Presentation and Summary of Significant Accounting Policies

Basis of presentation

The accompanying consolidated financial statements have been prepared in conformity with U.S. generally accepted accounting principles ("GAAP"). Any reference in these notes to applicable guidance is meant to refer to GAAP as found in the Accounting Standards Codification ("ASC") and Accounting Standards Updates ("ASU") of the Financial Accounting Standards Board ("FASB").

The consolidated financial statements include the accounts of the Company's subsidiaries and affiliates in which the Company holds a controlling financial interest as of the financial statement date. As the Company has been the primary funding source for Sonnet since its distribution to the Company's stockholders, the operations and financial position of Sonnet are included in the consolidated financial statements of the Company. Participation of the stockholders in the net assets and losses of Sonnet are reflected in the line items "Noncontrolling interests" in the Company's consolidated balance sheets and "Net loss attributable to the noncontrolling interests" in the Company's consolidated statements of operations. Noncontrolling interests adjusts the Company's consolidated results of operations to exclude all of the losses of Sonnet as Oncobiologics has no direct equity ownership in Sonnet. Changes in underlying net book value of Sonnet due to equity issuances are reflected as equity transaction in the Company's consolidated statements of stockholders' equity (deficit).

Parilis previously issued Series A and Series A Hybrid Redeemable Preferred Units ("Preferred Units") to investors other than Oncobiologics. Prior to October 2015, the Preferred Units were redeemable both at the option of the Parilis Preferred holders and upon the occurrence of an event that was not solely within the Company's control. Because redemption of Preferred Units was outside of the Company's control, the noncontrolling interests is presented on the consolidated balance sheets under the caption redeemable noncontrolling interests and carried at its current redemption value. As of and for the years ended September 30, 2014 and 2015, the redeemable noncontrolling interests is presented at its carrying amount and adjusted for dividends to and contributions from the noncontrolling interests with an offsetting charge to common stock or, in the absence of common stock, a charge to accumulated deficit.

Use of estimates

The preparation of the consolidated financial statements in conformity with GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates. Due to the uncertainty of factors surrounding the estimates or judgments used in the preparation of the consolidated financial statements, actual results may materially vary from these estimates. Estimates and assumptions are periodically reviewed and the effects of revisions are reflected in the consolidated financial statements in the period they are determined to be necessary.

Restricted cash

As of September 30, 2014 and 2015, the Company had \$211,452 and \$213,663, respectively, in certificates of deposit with a maturity date of August 2017 and are related to the requirements of the Company's bank loan.

Fair Value of financial instrument

At September 30, 2014 and 2015, the Company's financial instruments included accounts payable, accrued expenses, stockholder notes, debt and stock-based compensation liability. The carrying amount of accounts payable and accrued expenses approximates fair value due to the short-term maturities of these instruments. The stockholder notes and debt approximates fair value as the interest rates are reflective of the rate the Company could obtain on debt with similar terms and conditions. The carrying value of the stock-based compensation liability is the estimated fair value of the liability (note 11).

Property and equipment

Property and equipment are recorded at cost. Depreciation and amortization is determined using the straight-line method over the estimated useful lives ranging from 3 to 10 years. Leasehold improvements are amortized over the life of the

or the estimated useful life of the assets, whichever is shorter. Expenditures for maintenance and repairs are expensed as incurred while renewals and betterments are capitalized. When property and equipment is sold or otherwise disposed of, the cost and related accumulated depreciation are eliminated from the accounts and any resulting gain or loss is reflected in operations.

Long-lived assets

Long-lived assets are reviewed for impairment whenever events or changes in circumstances indicate that the carrying amount of an asset may not be recoverable. Recoverability of assets to be held and used is measured by a comparison of the carrying amount of an asset to future net cash flows expected to be generated. Impairment charges are recognized at the amount by which the carrying amount of an asset exceeds the fair value of the asset. Assets to be disposed of are reported at the lower of the carrying amount or the fair value less costs to sell. The Company has not recognized any impairment or disposition of long-lived assets.

Deferred offering costs

The Company capitalizes costs that are directly associated with in-process equity financings until such financings are consummated at which time such costs are recorded against the gross proceeds of the offering.

Stock-based compensation

The Company measures equity classified stock-based awards granted to employees and directors based on the estimated fair value on the date of grant and recognizes compensation expense of those awards, net of estimated forfeitures, on a straight-line basis over the requisite service period, which is generally the vesting period of the respective award.

The fair value of each stock option grant is estimated on the date of grant using the Black-Scholes option pricing model, which is described more fully in note 11. The fair value of each restricted stock award is measured as the fair value per share of the Company's common stock on the date of grant.

Stock-based awards granted to consultants and non-employees are measured based on the fair value of the award on the date on which the related services are completed. Compensation expense is recognized over the period during which services are rendered by such consultants and non-employees until completed. At the end of each financial reporting period prior to completion of the service, the fair value of these awards is remeasured using the then-current fair value of the Company's common stock and updated assumption inputs in the Black-Scholes option-pricing model.

Stock-based awards that are settled in cash are accounted for as liabilities and are remeasured at each reporting period until the obligations are satisfied. Stock-based compensation liabilities are valued through the use of a Monte Carlo simulation model.

Revenue recognition

The Company's revenue is generated primarily through collaboration research and license agreements. The terms of these agreements generally contain multiple deliverables which may include (i) licenses, (ii) research and development activities, (iii) clinical manufacturing, and (iv) product supply. The payment terms of these agreements may include nonrefundable upfront fees, payments for research and development activities, payments based upon the achievement of certain milestones, royalty payments based on product sales derived from the collaboration, and payments for supplying product.

The Company considers whether the deliverables under the arrangement represent separate units of accounting. In determining the units of accounting, management evaluates certain criteria, including whether the deliverables have stand-alone value. The consideration received is allocated to the separate units of accounting using the relative selling price method, and the applicable revenue recognition criteria are applied to each of the separate units.

The Company typically receives upfront, nonrefundable payments when licensing its intellectual property. For intellectual property licenses that do not have stand-alone value from the other deliverables to be provided, the upfront fee is deferred and revenue is recognized over the contractual or estimated performance period, which is typically the term of the research and development obligations. The periods over which revenue is recognized are subject to estimates by management and may change over the course of the research and development agreement. Such a change could have a material impact on

the amount of revenue the Company records in future periods. Payments or reimbursements resulting from the Company's research and development efforts are recognized as the services are performed. Amounts received prior to satisfying the above revenue recognition criteria are recorded as deferred revenue.

The Company recognizes revenue from milestone payments when: (i) the milestone event is substantive and its achievability was not reasonably assured at the inception of the agreement, and (ii) the Company does not have ongoing performance obligations related to the achievement of the milestone earned. Milestone payments are considered substantive if all of the following conditions are met: the milestone payment (a) is commensurate with either the Company's performance to achieve the milestone or the enhancement of the value of the delivered item or items as a result of a specific outcome resulting from the Company's performance to achieve the milestone, (b) relates solely to past performance, and (c) is reasonable relative to all of the deliverables and payment terms (including other potential milestone consideration) within the arrangement.

Research and development

Research and development costs are expensed as incurred and consist primarily of funds paid to third parties for the provision of services for product candidate development, clinical and preclinical development and related supply and manufacturing costs, and regulatory compliance costs. At the end of the reporting period, the Company compares payments made to third-party service providers to the estimated progress toward completion of the research or development objectives. Such estimates are subject to change as additional information becomes available. Depending on the timing of payments to the service providers and the progress that the Company estimates has been made as a result of the service provided, the Company may record net prepaid or accrued expense relating to these costs.

Upfront milestone payments made to third parties who perform research and development services on the Company's behalf are expensed as services are rendered. Costs incurred in obtaining technology licenses are charged to research and development expense as acquired in-process research and development if the technology licensed has not reached technological feasibility and has no alternative future use.

Income taxes

The Company accounts for income taxes using the asset and liability method. Under the asset and liability method, deferred tax assets and liabilities are recognized for the future tax consequences attributable to differences between the financial statement carrying amounts of existing assets and liabilities and their respective tax bases. Deferred tax assets and liabilities are measured using enacted tax rates expected to apply to taxable income in the years in which those temporary differences are expected to be recovered or settled. The effect on deferred tax assets and liabilities of a change in tax rates is recognized in income in the period that includes the enactment date. A valuation allowance is recorded to the extent it is more likely than not that some portion or all of the deferred tax assets will not be realized.

Accretion of redeemable preferred stock, redeemable common stock and redeemable noncontrolling interests

Accretion of redeemable preferred stock includes the accretion of dividends and issuance costs of the Company's Series A and Series B redeemable preferred stock and the redeemable common stock. The carrying values of the Series A and Series B redeemable preferred stock, redeemable common stock and redeemable noncontrolling interests are being accreted to their respective redemption values, using the effective interest method, from the date of issuance to the earliest date the holders can demand redemption. Increases to the carrying value of redeemable preferred stock, common stock, and noncontrolling interests are charged to common stock or, in the absence of common stock, charged to accumulated deficit. Upon repurchase of redeemable preferred stock and redeemable noncontrolling interests, the excess consideration paid over the carrying value at the time of repurchase is accounted for as a deemed dividends to the preferred stockholders.

Net loss per share

Basic and diluted net loss per common share is determined by dividing net loss applicable to common stockholders by the weighted-average common shares during the period. For all periods presented, the outstanding shares of Series A and Series B redeemable preferred stock have been excluded from the calculation because their effects would be anti-dilutive. Therefore the weighted-average shares used to calculate both basic and diluted loss per share are the same.

The following potentially dilutive securities have been excluded from the computation of diluted weighted-average shares outstanding as of September 30, 2014 and 2015, as they would be antidilutive:

	Septem	ber 30,
	2014	2015
Series A redeemable preferred stock	3,681,000	3,568,000
Series B redeemable preferred stock	4,000,000	4,000,000
Unvested shares of restricted common stock	112,000	
Convertible stockholder note	-	333,333

Amounts in the table above reflect the common stock equivalents of the noted instruments.

The unaudited pro forma net loss per common share is computed using the weighted-average number of common shares outstanding and assumes the issuance of 3,568,000, 4,000,000 and 782,000 shares of common stock issued to Series A and Series B redeemable preferred stockholders and Parilis Preferred Unit holders, respectively, in connection with the reincorporation of the Company in October 2015 and the issuance of 1,978,224 shares of common stock in December 2015 and January 2016. The pro forma weighted-average shares outstanding also assumes the reincorporation, the issuance of shares of common stock upon settlement of the Series A liquidation value of \$11,819,000 using the estimated midpoint per share price of \$. The pro forma weighted-average shares outstanding of was used to compute the pro forma net loss per common share.

The following table summarizes the calculation of unaudited pro forma basic and diluted net loss per common share:

Numerator:	
Net loss applicable to common stockholders of Oncobiologics, Inc.	\$ (52,998,402)
Effect of pro forma adjustments:	
Accretion of redeemable preferred stock and noncontrolling interests	4,306,488
Deemed dividends	1,298,631
Pro forma net loss attributable to common stockholders of Oncobiologics, Inc.	\$ (47,393,283)
Denominator:	
Weighted-average common shares outstanding	
Effect of pro forma adjustments:	
Exchange of Series A and Series B redeemable preferred stock	
Exchange of Parilis Preferred Units	
Conversion of Series A Preferred Stock liquidation value	
Issuance of common stock in December 2015	
Shares used in computing unaudited pro forma weighted-average basic and diluted common shares outstanding	
Unaudited pro forma basic and diluted net loss per common share	\$

Recent accounting pronouncements

In April 2015, the Financial Accounting Standards Board ("FASB") issued Accounting Standards Updates ("ASU") 2015-03, *Interest — Imputation of Interest* (Subtopic 835-30). The update requires debt issuance costs related to a recognized debt liability to be presented in the balance sheet as a direct deduction from the debt liability rather than as an asset. The guidance is effective for fiscal years beginning after December 15, 2015. The Company early adopted this guidance for all periods presented.

In August 2014, the FASB issued ASU 2014-15, *Disclosure of Uncertainties about an Entity's Ability to Continue as a Going Concern*. The amendments in this update will explicitly require a company's management to assess an entity's ability to continue as a going concern, and to provide related footnote disclosures in certain circumstances. The new standard will

be effective in the first annual period ending after December 15, 2016. Early application is permitted. The Company is currently evaluating the potential impact of the adoption of this standard, but believes its adoption will have no impact on its consolidated results of operations, financial position and cash flows.

In May 2014, the FASB issued ASU No. 2014-09, *Revenue from Contracts with Customers*. This guidance requires an entity to recognize revenue to depict the transfer of promised goods or services to customers in an amount that reflects the consideration to which the entity expects to be entitled in exchange for those goods or services. This guidance also requires an entity to disclose sufficient information to enable users of financial statements to understand the nature, amount, timing and uncertainty of revenue and cash flows arising from contracts with customers. Qualitative and quantitative information is required about:

- Contracts with customers including revenue and impairments recognized, disaggregation of revenue and
 information about contract balances and performance obligations (including the transaction price allocated to
 the remaining performance obligations).
- Significant judgments and changes in judgments determining the timing of satisfaction of performance obligations (over time or at a point in time), and determining the transaction price and amounts allocated to performance obligations.
- Certain assets assets recognized from the costs to obtain or fulfill a contract.

In July 2015, the FASB delayed the effective date of this guidance. As a result, this guidance will be effective for annual reporting periods beginning after December 15, 2017, including interim periods within that reporting period. Earlier application is permitted only as of annual reporting periods beginning after December 15, 2016, including interim reporting periods within that reporting period. The Company is currently evaluating the impact that this guidance will have on its consolidated results of operations, financial position and cash flows.

4. Fair Value Measurements

Certain assets and liabilities are carried at fair value under GAAP. Fair value is defined as the exchange price that would be received for an asset or paid to transfer a liability (an exit price) in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants on the measurement date. Valuation techniques used to measure fair value must maximize the use of observable inputs and minimize the use of unobservable inputs. Financial assets and liabilities carried at fair value are to be classified and disclosed in one of the following three levels of the fair value hierarchy, of which the first two are considered observable and the last is considered unobservable:

- Level 1 Quoted prices in active markets for identical assets or liabilities
- Level 2 Observable inputs (other than Level 1 quoted prices), such as quoted prices in active markets for similar assets or liabilities, quoted prices in markets that are not active for identical or similar assets or liabilities, or other inputs that are observable or can be corroborated by observable market data.
- Level 3 Unobservable inputs that are supported by little or no market activity and that are significant to
 determining the fair value of the assets or liabilities, including pricing models, discounted cash flow
 methodologies and similar techniques.

The asset's or liability's fair value measurement level within the fair value hierarchy is based on the lowest level of any input that is significant to the fair value measurement. Valuation techniques used need to maximize the use of observable inputs and minimize the use of unobservable inputs.

The following table presents the Company's assets and liabilities that are measured at fair value on a recurring basis:

	S	eptember 30, 2	2014
	(Level 1)	(Level 1) (Level 2) (Level 3)	
Liabilities			
Stock-based compensation liability	<u> </u>	<u> </u>	\$1,557,789

	s	eptember 30,	2015
	(Level 1)	(Level 2)	(Level 3)
Liabilities			
Stock-based compensation liability	<u> </u>	<u>\$ —</u>	\$12,726,722

The table presented below is a summary of changes in the fair value of the Company's Level 3 valuation for the stock-based compensation liability for the years ended September 30, 2014 and 2015:

Balance at October 1, 2013	\$	_
Issued		364,187
Change in fair value		1,193,602
Balance at September 30, 2014		1,557,789
Change in fair value	1	11,168,933
Balance at September 30, 2015	\$ 1	12,726,722

The Company has issued stock-based performance units ("PSUs"), which generally have a ten year life from the date of grant and vest 50% after the third anniversary from issuance and the remaining 50% on the fourth anniversary. In addition, the PSUs are exercisable upon the earlier of (i) a change in control, (ii) consummation of an initial public offering, or (iii) a corporate valuation in excess of \$400 million and at the discretion by the Company's Board of Directors. Upon exercise, the PSU holder receives a cash payment for the difference between the current per share value of the Company and the base price of the PSU. Given the cash settlement, the PSUs are liability classified and re-measured at each reporting date with changes in fair value recorded within the Company's consolidated statements of operations.

The PSUs contain a market condition as the exercisability of the awards are based on the Company achieving a market value of \$400 million during the relevant performance period. The fair value of the market condition is valued using a Monte Carlo simulation model. The significant assumptions used in preparing the Monte Carlo simulation model include (i) volatility of the Company's common stock, (ii) risk free interest rate, (iii) base price of the PSUs, (iv) fair value of the Company's common stock and enterprise value of the Company, and (v) derived service period.

The fair value of the PSUs of \$1.00 and \$6.44 per PSU at September 30, 2014 and 2015, respectively, was derived using the following assumptions:

	Septer	nber 30,
	2014	2015
Risk-free interest rate	1.8%	1.4%
erived service period	5 years	5 years
expected volatility	60%	60%
Annual dividend yield	0%	0%
air value of common stock	\$2.21 per share	\$7.475 per shar

5. Property and Equipment

Property and equipment, net, consists of:

	Septen	nber 30,
	2014	2015
Laboratory equipment	\$ 6,847,970	\$ 10,936,364
Leasehold improvements	2,756,291	9,889,521
Computer software and hardware	224,150	402,075
Construction in process	-	175,425
	9,828,411	21,403,385
Less: accumulated depreciation and amortization	(1,818,847)	(3,643,447)
	\$ 8,009,564	\$ 17,759,938

Depreciation and amortization expense for the years ended September 30, 2014 and 2015 was \$878,477 and \$1,824,600, respectively.

At September 30, 2014 and 2015, \$926,231 and \$3,530,301, respectively, represents laboratory equipment under capital leases. The term of the leases are between 11 and 36 months and qualify as capital leases. The leases bear interest between 8.6% and 21.4%. At September 30, 2014 and 2015, \$206,663 and \$407,210 respectively, of accumulated depreciation related to this leased equipment has been recognized.

The following is a schedule of future minimum lease payments under capital leases as of September 30, 2015:

2016	\$ 1,087,192
2017	1,053,748
2018	295,010
	2,435,950
Less: amounts representing interest	(353,728)
Less: current portion	(862,849)
Capital lease obligations, excluding current portion	\$ 1,219,373

6. Accrued Expenses

Accrued expenses consists of:

	Septer	nber 30,
	2014	2015
Compensation	\$1,907,684	\$ 2,321,508
Research and development	170,513	951,759
Interest payable	106,940	806,475
Deferred offering costs		657,892
Professional fees	131,668	594,572
Director fees	239,420	414,421
Other accrued expenses	4,054	178,021
	\$2,560,279	\$ 5,924,648

7. Stockholder Notes

	S	September 30,		
	2014			2015
Series A repurchase notes	\$ 3,014,	534	\$	800,534
Parilis Series A repurchase notes		_		2,275,818
Restricted stock repurchase notes	1,097,	750		1,097,750
Common stock repurchase note	2,812,	500		2,812,500
Convertible note		_		2,000,000
Working capital notes	3,700,	000		7,227,594
	10,624,	784		16,214,196
Less current portion	(10,624,	784)	(14,214,196)
Stockholder notes, excluding current portion	\$		\$	2,000,000

In June 2014, the Company, upon the repurchase of its Series A redeemable preferred stock, issued \$3,364,534 in notes to the investors as settlement of cumulative unpaid dividends. The notes bear interest at 4.0% and were originally due in June 2015. Pursuant to the terms of the notes, the interest rate increased to 6% as a result of nonpayment and are due on demand. During the years ended September 30, 2014, and 2015, \$350,000 and \$64,000 of the notes were offset against advances previously made to the Company's CEO. Additionally, \$100,000 of the notes were offset against advances previously made to an investor. The Company made principal payments of \$2,050,000 during the year ended September 30, 2015.

In October 2014, the Company, upon the repurchase of 1,215 Parilis Preferred Units, issued \$2,761,818 in notes to the investors at a price of \$2,000 per unit and \$331,818 in cumulative unpaid dividends. During the year ended September 30, 2015, the Company made \$486,000 in principal payments. The notes bear interest at 4.0% and, as of September 30, 2015, are due upon demand.

In June 2014, the Company repurchased shares of its restricted stock in exchange for \$1,097,750 in notes payable. The notes bear interest at rates ranging from 0%-4% and are due on demand as of September 30, 2015.

In June 2014, the Company repurchased 3,312,500 shares of its common stock in exchange for a \$3,312,500 note payable. The note does not bear interest and is due on demand. During the year ended September 30, 2014, the Company made \$500,000 in principal payments.

In October and December 2014, the Company issued convertible promissory notes to a redeemable common stock investor, each in the amount of \$2,000,000 and bearing interest at 12%. The December note was paid in full during the year ended September 30, 2015. The October note matures in December 2016 and is convertible at any time into shares of the Company's common stock at a conversion price of \$6.00 per share. Upon issuance, the Company determined there was no beneficial conversion feature as the conversion price exceeded the estimated fair value of the underlying common stock to be issued upon conversion.

During the years ended September 30, 2014 and 2015, the Company borrowed \$6,000,000 and \$6,880,252, respectively, from stockholders for working capital purposes. During the years ended September 30, 2014 and 2015, the Company made principal payments of \$2,625,000 and \$3,352,658, respectively. The notes bear interest from 0% to 24% per annum with a weighted-average interest rate of 14.5%. Certain notes are secured by future revenue streams from existing licensing agreements. In addition, one of the notes is collateralized by 1.0 million common shares of the Company's founding stockholder and Chief Executive Officer ("CEO"). The notes are due on demand as of September 30, 2015.

During the years ended September 30, 2014 and 2015, the Company recognized interest expense related to the stockholder notes of \$541,914 and \$1,869,113, respectively.

8. Debt

	Septem	ıber 30,
	2014	2015
Term loans-Bank	\$ 3,935,574	\$ 3,404,759
Equipment loans	528,876	334,093
Unamortized debt discount	(85,706)	(73,442)
	4,378,744	3,665,410
Less current portion	725,706	742,646
Long-term debt, excluding current portion	\$ 3,653,038	\$ 2,922,764

The term bank loans bear interest at the prime rate plus 2.75% and are adjusted monthly. The original term of the loans range from 7-10 years. Minimum monthly payments of principal and interest under the terms of the loans are \$62,654 and are collateralized by equipment, a secured interest in the personal residence of the founding stockholder and CEO, an unconditional personal guarantee by the founding stockholder and CEO and a \$200,000 certificate of deposit. The Company maintains a life insurance policy on its founding stockholder and CEO in which the bank is the primary beneficiary. The loans contain certain non-financial covenants.

The equipment loans bear interest at rates ranging from 11%-18% with the original term of the loans ranging from 1-5 years. Minimum monthly payments of principal and interest under the equipment loans are \$26,539 and are collateralized by the related equipment purchased and an unconditional personal guarantee by the founding stockholder and CEO.

Interest expense on the above loans for the years ended September 30, 2014 and 2015 was \$276,496 and \$287,280, respectively.

Future maturities of debt at September 30, 2015 are as follows:

2017 717,7 2018 637,4 2019 509,8 2020 523,0	2016	\$	742,646
2019 509,8 2020 523,0			717,794
2020 523,0	2018	1	637,479
	2019	!	509,864
	2020	!	523,062
Thereafter 608,0	Thereafter		608,007
\$ 3,738,8		\$ 3,	738,852

9. Commitments

Selexis Commercial License Agreements

In April 2013, the Company entered into commercial license agreements with Selexis for each of the ONS-3010, ONS-1045 and ONS-1050 biosimilar product candidates (which agreements were subsequently amended on May 21, 2014). Under the terms of each commercial license agreement, the Company acquired a non-exclusive worldwide license under the Selexis Technology to use the applicable Selexis expression technology along with the resulting Selexis materials/cell lines, each developed under the research license, to manufacture and commercialize licensed and final products, with a limited right to sublicense.

The Company paid an upfront licensing fee to Selexis for each commercial license and also agreed to pay a fixed milestone payment for each licensed product. In addition, the Company is required to pay a low single-digit royalty on a final product-by-final product and country-by-country basis, based on worldwide net sales of such final products by the Company or any of the Company's affiliates or sublicensees during the royalty term. The royalty term for each final product in each country is the period commencing from the first commercial sale of the applicable final product in the applicable country and ending on the expiration of the specified patent coverage. At any time during the term, the Company has the right to terminate its royalty payment obligation by providing written notice to Selexis and paying Selexis a royalty termination fee.

Each of the Company's commercial agreements with Selexis will expire upon the expiration of all applicable Selexis patent rights. Either party may terminate the related agreement in the event of an uncured material breach by the other party or in the event the other party becomes subject to specified bankruptcy, winding up or similar circumstances. Either party may also terminate the related agreement under designated circumstances if the Selexis Technology infringes third-party intellectual property rights. In addition, the Company has the right to terminate each of the commercial agreements at any time at its convenience; however, with respect to the agreements relating to ONS-3010 and ONS-1045, this right is subject to the licensee's consent pursuant to a corresponding letter the Company executed in conjunction with the standby agreement entered into between Selexis and Liomont in November 2014.

The standby agreement permits Liomont to assume the license under the applicable commercial agreement for Mexico upon specified triggering events involving our bankruptcy, insolvency or similar circumstances.

Technology License

The Company entered into a technology license agreement which will require milestone payments of \$375,000 (based on an exchange rate on September 30, 2015 for converting Swiss Francs to U.S. dollars) to the licensor by the Company upon achievement of certain clinical milestones and pay a single digit royalty on net sales by the Company utilizing such technology. The Company also has the contractual right to buy out the royalty payments at a future date.

Leases

In May 2012, the Company entered into a lease agreement for its office and operating space which, as amended, has a term ending in June 2021. Rent expense under the leases was \$581,464 and \$720,875 for the years ended September 30, 2014 and 2015, respectively. The Company recognizes rent expense on a straight-line basis over the lease period and has accrued for rent expense incurred but not yet paid. Landlord allowances for tenant improvements are deferred and recognized as a reduction to rent expense on a straight line basis and over the remaining lease term. As part of the most recent amendment to the lease agreement in May 2014, the Company increased the amount of space to be leased and, accordingly, agreed to new monthly lease terms for the additional space.

Future minimum rental payments under noncancelable operating leases at September 30, 2015 are as follows:

2016	\$	888,710
2017		865,763
2018		865,763
2019		876,323
2020		887,045
Thereafter		643,749
	\$ 5	,027,353
	·	

Employment Benefit Plan

The Company maintains a defined contribution 401(k) plan in which employees may contribute up to 100% of their salary and bonus, subject to statutory maximum contribution amounts. The Company matches 100% of the first 3% of employee contributions. The Company assumes all administrative costs of the Plan. For the years ended September 30, 2014 and 2015, the expense relating to the matching contribution was \$83,969 and \$131,385, respectively.

Redeemable Preferred Stock, Common Stock, Noncontrolling Interests and Stockholders' Equity (Deficit)

Common stock

During the year ended September 30, 2015, the Company sold 6,091,035 shares of its common stock at \$7.475 per share under a mezzanine funding round raising \$44,142,463 in net proceeds of which \$4,280,149 was received in October 2015.

Each share of common stock entitles the holder to one vote on all matters submitted to a vote of the Company's stockholders. Common stockholders are entitled to receive dividends, as may be declared by the board of directors, if any, subject to the preferential dividend rights of the Series A and Series B redeemable preferred stock (collectively, the "Redeemable Preferred Stock"). The Company may not pay dividends to common stockholders until all dividends accrued or declared but unpaid on the Redeemable Preferred Stock have been paid in full. No dividends had been declared through September 30, 2015.

Redeemable common stock

During the year ended September 30, 2014, the Company sold 4,000,000 and 2,000,000 shares of its common stock to an investor at \$1.75 and \$2.00 per share, respectively, and net of \$105,000 in issuance costs. Pursuant to the terms of the purchase agreement, in the event that the Company sells its common stock any time prior to the Company engaging in a Qualified IPO or Qualified Liquidation Event, as defined, at a price below \$1.75 per share and \$2.00 per share for 4,000,000 and 2,000,000 shares sold, respectively, the investors are entitled to receive additional shares of common stock. In addition, if the Company fails to engage in a Qualified IPO or Qualified Liquidation Event prior to March 10, 2017, the investor shall have the right to require the Company to redeem any or all of the investor's common stock at a redemption price equal to \$3.50 per share for 4,000,000 of its shares and \$4.00 per share for 2,000,000 of its shares.

The Redeemable Common Stock is classified outside of stockholders' equity (deficit) because of the redemption right held by the investors.

Redeemable preferred stock

The Company has Redeemable Preferred Stock which is classified outside of stockholders' deficit because the shares contain redemption features that are not solely within the control of the Company.

Through December 2013, the Company sold 6,995 shares of Series A Participating Preferred Stock (Series A) and 3,600 shares of Series B Participating Preferred Stock (Series B). During the year ended September 30, 2014, the Company sold an additional 400 shares of Series B. In connection with the sale of Series B, the Company issued 3,862,500 shares of common stock. In addition to the rights and preferences described below for the Series A and Series B, the investors also received the right to receive an additional 1,000 shares of common stock for each share of Redeemable Preferred Stock upon redemption.

The total purchase of \$10,995,000 was allocated on a relative fair value basis between redeemable preferred stock and the equity instruments resulting in \$5,920,000 and \$2,280,000 allocated to the initial carrying value of the Series A and Series B, respectively, with the balance allocated to common stock. Subsequently, the carrying value of the Series A and Series B are accreted up to their redemption value using the effective interest method.

Dividends

The holders of the Redeemable Preferred Stock are entitled to receive cumulative dividends at an annual rate of \$100 per share. In the event the Company cannot satisfy its redemption obligation to the holders, the annual dividend will increase to \$120 per share. Dividends accrue whether or not earned or declared, irrespective of the availability of profits. Dividends on redeemable preferred stock are payable upon redemption or upon liquidation.

Liquidation preference

In the event of a liquidation, dissolution or winding up of the Company, either voluntary or involuntary, or in the event of a Deemed Liquidation Event, as defined, holders of Series A are entitled to receive, in preference to all other stockholders, an amount equal to the Original Issue Price, as defined in the Certificate of Designation for the Series A, plus any unpaid accrued dividends. If upon the occurrence of such event, the assets and funds thus distributed among the holders of the Series A shall be insufficient to pay such holders, then the entire assets and funds of the Company legally available for distribution shall be distributed ratably among the holders of the Series A in proportion to the respective amount of such stock owned by each such holder. After payments have been made in full to the holders of Series A, then, to the extent available, holders of the Series B are entitled to participate in the distribution of the remaining assets, pro rata based on the number of shares by each holder.

Redemption

The holders of redeemable preferred stock have a right to require the Company to redeem all outstanding shares at a redemption price equal to the Original Issue Price plus unpaid accrued dividends. In addition, the holders of Redeemable Preferred Stock will receive 1,000 shares of common stock for each share of Redeemable Preferred Stock redeemed.

Voting rights

The holders of the Redeemable Preferred Stock have no voting rights outside of matters directly related to each series of Redeemable Preferred Stock. In addition, the holders of the Redeemable Preferred Stock, as a class, may elect 1 board member to represent its interest, respectively.

Repurchase transactions

In June 2014, the Company entered into a series of equity transactions in which it (1) repurchased 3,314 shares of the Series A, (2) repurchased 3,312,500 shares of common stock, and (3) settled accrued dividends on the Series A of \$864.534.

The Series A repurchase price was \$2,000 per share for a total of \$6,628,000 of which \$4,128,000 was paid in cash with the balance of \$2,500,000 through the issuance of notes payable. The Company also issued \$864,534 of notes payable for the accrued dividends. The Company recorded a deemed dividend of \$3,336,855, which represents the total consideration paid of \$7,492,534 in excess of carrying value of the Series A of \$4,155,679.

In June 2014, the Company repurchased 3,312,500 shares of common stock and issued notes payable at a repurchase price of \$1.00 per share.

In 2015, the Company purchased an additional 113 shares of Series A and cumulative dividends of \$29,370 for \$2,000 per share upon which the Company recorded a deemed dividend of \$83,631, which represents the total consideration paid of \$226,000 in excess of carrying value of the Series A of \$142,370.

From October through December 2014, the Company repurchased 1,215 Parilis Preferred Units. The repurchase price was \$2,000 per share plus unpaid dividends of \$331,818 for a total of \$2,761,818. The Company recorded a deemed dividend of \$1,215,000, which represents the total consideration paid in excess of the carrying value of the redeemable noncontrolling interest of \$1,546,818. Upon repurchase, the Company issued notes to the investors.

11. Stock-Based Compensation

The Company's 2011 Equity Compensation Plan (the "2011 Plan") provides for the Company to sell or issue restricted common stock, restricted stock units, performance-based awards, cash-based awards or to grant stock options for the purchase of common stock. The 2011 Plan is administered by the board of directors or, at the discretion of the board of directors, by a committee of the board. The number of shares of common stock reserved for issuance under the 2011 Plan is 4,000,000, which may be granted to officers, employees, consultants and directors of the Company.

As required by the 2011 Plan, the exercise price for stock options granted is not to be less than the fair value of common shares as determined by the Company as of the date of grant. The term of stock options may not be greater than ten years. Generally, stock options granted under the 2011 Plan vest 50% on the third anniversary from the grant date and 50% on the fourth anniversary. In the event of change in control, any outstanding option shall become fully vested and exercisable

For restricted stock awards granted to employees, the fair value of the award is the current fair value of the Company's common stock on the grant date, while for non-employees, the fair value of the award is re-measured each reporting period using the then-current fair value of the Company's common stock until performance is complete. The restricted stock awards vest 50% on the third anniversary from the grant date and 50% on the fourth anniversary. In the event of change in control, any outstanding unvested share shall become fully vested.

The Company recorded stock-based compensation expense in the following expense categories of its statements of operations for the years ended September 30, 2014 and 2015:

	Septen	nber 30,
	2014	2015
esearch and development	\$ 671,745	\$ 5,817,830
Seneral and administrative	3,286,735	5,360,028
	\$ 3,958,480	\$ 11,177,858

	Septer	mber 30,
	2014	2015
Equity-classified compensation	\$ 2,764,878	\$ 8,925
Liability-classified compensation	1,193,602	11,168,933
	\$ 3,958,480	\$ 11,177,858

In June 2014, the Company entered into agreements with certain employees and non-employees to exchange 108,000 stock options and 2,078,500 restricted stock awards for 2,454,480 PSUs. In addition, the Company repurchased 2,195,500 restricted stock awards in exchange for \$1,097,750 of notes payable. Upon issuing the notes payable, the Company recognized the unamortized balance of stock-based compensation expense of \$1,730,791.

The repurchase of restricted stock in exchange for notes payable was accounted for as a settlement which effectively accelerated vesting of any unvested awards, requiring the immediate recognition of any unrecognized compensation cost. The Company recorded incremental stock-based compensation expense of \$792,601 to reflect this settlement. The exchange of restricted stock and stock options for PSUs was considered a modification with a change in classification from an equity classified award to a liability classified award due to the cash settlement feature of the PSUs. The liability related to the PSUs is re-measured at each reporting period until the PSUs are exercised or expire. Upon recording the initial stock-based compensation liability, the Company increased accumulated deficit \$364,187, which represents the cumulative stock-based compensation expense recognized to date for the stock options and restricted stock exchanged into PSUs.

Performance-based stock units

The Company has issued PSUs, which generally have a ten year life from the date of grant and vest 50% after the third anniversary from issuance and the remaining 50% on the fourth anniversary. The PSUs are exercisable upon the earlier of (i) a change in control, (ii) consummation of an initial public offering, or (iii) a corporate valuation in excess of \$400 million and at the discretion by the Company's board of directors. Upon exercise, the PSU holder receives a cash payment for the difference between the current per share fair value of the Company's common stock and the base price of the PSU, which is \$1.00 per PSU. Given the cash settlement, the PSUs are liability classified and re-measured at each reporting date with changes in fair value recorded within the Company's consolidated statements of operations. See note 4 for discussion of fair value of the PSUs.

The following table summarizes the PSU activity for the years ended September 30, 2014 and 2015:

Balance at October 1, 2013	<u>_</u>
Issued in exchange for restricted shares and stock options	2,454,480
Additional issuances	58,200
Forfeitures	(240,800)
Balance at September 30, 2014	2,271,880
Grants	138,000
Forfeitures	(39,600)
Balance at September 30, 2015	2,370,280

Restricted stock

The following table summarizes the activity related to restricted stock grants to employees and non-employees for the years ended September 30, 2014 and 2015:

	Employees	Non Employees	Weighted Average Grant Date Fair Value
Balance at October 1, 2013	2,269,000	1,915,500	\$ 0.30
Granted	313,500	_	1.61
Vested	(102,000)	(10,000)	0.20
Exchange for PSUs	(1,978,500)	(100,000)	0.40
Repurchased for stockholder notes	(400,000)	(1,795,500)	0.39
Balance at September 30, 2014	102,000	10,000	0.20
Vested	(102,000)	(10,000)	0.20
Balance at September 30, 2015			<u> </u>

At September 30, 2015, there was no unrecognized compensation cost related to non-vested restricted stock.

Of the 112,000 shares of restricted stock that vested during the year ended September 30, 2014, 9,769 shares were withheld by the Company for income tax withholdings. No shares were withheld by the Company for taxes on the restricted stock that vested during the year ended September 30, 2015.

Stock options

The Company has not granted stock options since December 2011 and there is no unrecognized compensation expense as of September 30, 2015.

The fair value of stock options granted was estimated using the Black-Scholes option pricing model. As a private company, the expected volatility is based on the historical volatility of a publicly traded set of peer companies. The expected term of the Company's stock options is determined utilizing the "simplified" method. The risk-free interest rate is determined by reference to the U.S. Treasury yield curve in effect at the time of grant of the award for time periods approximately equal to the expected term of the award.

The following table summarizes stock option activity for the year ended September 30, 2014:

	Number of Options	Weighted Average Exercise Price Per Share
Balance at October 1, 2013	108,000	\$ 1.00
Exchange for PSUs	(108,000)	1.00
Balance at September 30, 2014		<u> </u>

12. Collaboration Arrangements

Huahai agreement

In May 2013, the Company entered into strategic license and collaboration arrangement with Zhejiang Huahai Pharmaceutical Co., Ltd ("Huahai") under which the Company granted Huahai and its affiliates an exclusive license for the research, development, manufacture, use or sale of ONS-3010 or ONS-1045 in China, including, the People's Republic of China, Hong Kong, Macau and Taiwan. In addition, the Company granted Huahai a right and license under the Selexis Technology agreement to establish a production process for the products in the agreed territory and to market the products in the agreed territory pursuant to the relevant terms and conditions of the Company's commercial license agreement with Selexis.

Under the terms of the arrangement, the Company has received \$7,500,000 in upfront payments and non-substantive milestones and received \$8,500,000 in substantive milestones. The Company determined that the deliverables under the Huahai arrangement were the exclusive license and the research and development services to be completed by the Company. Since the license did not have standalone value, the upfront and non-substantive milestones payments received have been deferred and are being recognized ratably on a straight line basis through December 2019, the expected date in which the research and development will be completed. Substantive milestones received under the Huahai arrangement are recognized upon achievement.

During the years ended September 30, 2014 and 2015, the Company recognized \$1,076,979 and \$1,175,580, respectively, of deferred revenues. For the years ended September 30, 2014 and 2015, the Company received and recognized \$6,500,000 and \$2,000,000 in substantive milestone payments, respectively. As of September 30, 2014 and 2015, deferred revenue included in the Company's consolidated balance sheet related to the Huahai arrangement was \$6,104.110 and \$4,928.530, respectively.

IPCA agreements

License and Collaboration Agreement

In August 2013, the Company entered into a strategic license agreement with IPCA Laboratories Limited and its affiliates ("IPCA") under which the Company granted IPCA a license for the research, development, manufacture, use or sale of the ONS-3010 and, by amendment in May 2014, the ONS-1045 biosimilar product candidates with respect to India, Sri-Lanka, and Myanmar, and non-exclusive with respect to Nepal and Bhutan, or collectively, the agreed territory. In addition, the Company granted IPCA a right and license under the Selexis Technology to enable IPCA to establish an exclusive production process for the products in its agreed territory and to exclusively market the products in the agreed territory. The Company also agreed not to amend or terminate its rights under its commercial license agreement with Selexis without IPCA's prior written consent.

Pursuant to the agreement, the Company agreed to continue the non-clinical and clinical development of each of ONS-3010 and ONS-1045 and corresponding products around the world and to develop and commercialize such products through Phase 3 clinical trials and regulatory approval in the United States and European Union. These obligations continue until termination of the agreement or the individual development programs or upon final regulatory approval of the last product for such biosimilars in the United States or European Union. The Company agreed to provide IPCA with a pre-IND package as submitted to EMEA and FDA, as well as perform preclinical development and characterization of ONS-3010 and ONS-1045 so as to enable IPCA to file an IND to conduct clinical trials and to perform clinical trials.

Under the terms of the agreement, the Company has received upfront and non-substantive milestone payments of \$2,400,000, and received \$1,000,000 in regulatory milestone payments. In addition, the Company is eligible to receive royalties at a low double-digit percentage rate of annual net sales of products by IPCA and its affiliates in the agreed territory. For each of ONS-3010 and ONS-1045, IPCA agreed to fund a portion of the global costs associated with the Phase 3 clinical trials.

The Company determined that the deliverables under the IPCA arrangement were the exclusive license and the research and development services to be completed by the Company. Since the license did not have standalone value, the upfront and non-substantive milestones payments received have been deferred and are being recognized ratably on a straight line basis through December 2019, the expected date in which the research and development will be completed. Substantive milestone payments received under the IPCA arrangement are recognized upon achievement. Cost reimbursements from IPCA related to the global costs associated with the Phase 3 clinical trials are recognized when payments are received and recorded as a reduction in research and development expense.

During the years ended September 30, 2014 and 2015, the Company recognized deferred revenues of \$189,472 and \$402,377, respectively. For each of the years ended September 30, 2014 and 2015, the Company received and recognized a \$500,000 substantive milestone payment. As of September 30, 2014 and 2015, deferred revenue included in the Company's consolidated balance sheets was \$994,739 and \$1,792,362, respectively.

Strategic Collaboration and Non-Exclusive License Agreement

In January 2014, the Company entered into a strategic collaboration and license agreement with IPCA to assist IPCA in establishing its research, development and manufacturing capabilities for monoclonal antibodies and biologics, including,

in part, through collaborative development, manufacture and commercialization of ONS-1050 in the agreed territory (as specified below). Under the agreement, the Company granted IPCA and its affiliates a non-exclusive license in the agreed territory for the research, development, manufacture, use or sale of ONS-1050. The Company also agreed to assist IPCA with its research and development program. The agreed territory for ONS-1050 includes the Republics of India, Sri-Lanka, and Myanmar, Nepal and Bhutan, while the agreed territory for any product candidates developed independent of the Company's involvement is global without geographical restriction. Any further collaboration between for such independently developed product candidates will be the subject of a separate written agreement if required by IPCA.

Under the terms of the agreement, the Company receives development payments and commercialization fees. In addition, the Company is eligible to receive royalties from IPCA at a mid-single digit rate on annual net sales of ONS-1050 commercialized by IPCA and its affiliates in the agreed territory.

The Company accounts for the agreement with IPCA as a research and development services arrangement and recognizes revenue under the proportional performance model. For the years ended September 30, 2014 and 2015, the Company recognized revenue of \$750,000 and \$800,000, respectively.

Liomont agreement

In June 2014, the Company entered into a strategic license agreement with Laboratorios Liomont, S.A. ("Liomont"), under which the Company granted Liomont and its affiliates an exclusive, sublicenseable license in Mexico for the research, development, manufacture, use or sale of the ONS-3010 and ONS-1045 biosimilar product candidates in Mexico. In addition, the Company granted Liomont a non-exclusive right and license under the Selexis Technology and related intellectual property to enable Liomont to distribute, market and commercialize the products in Mexico. The Company also agreed not to amend or terminate its rights under the commercial agreement with Selexis without Liomont's prior written consent.

Under the terms of the agreement, the Company has received \$1,500,000 of upfront payments and \$500,000 in non-substantive milestone payments and is eligible to receive up to \$3,500,000 in future substantive milestone payments. For each of ONS-3010 and ONS-1045, Liomont agreed to fund a portion of the global costs for Phase 3 clinical trials. The Company is eligible to receive tiered royalties at upper single-digit to low double-digit percentage rates of annual net sales of products by Liomont and its affiliates in Mexico.

The Company determined that the deliverables under the Liomont arrangement were the exclusive license and the research and development services to be completed by the Company. Since the license did not have standalone value, the upfront payments received have been deferred and are being recognized ratably on a straight line basis through December 2019, the expected date in which the research and development will be completed. Cost reimbursements from Liomont related to the global costs associated with the Phase 3 clinical trials are recognized when payments are received and recorded as a reduction in research and development expense.

During the years ended September 30, 2014 and 2015, the Company recognized deferred revenue of \$34,091 and \$341,280, respectively. As of September 30, 2014 and 2015, deferred revenue included in the Company's consolidated balance sheets was \$715,909 and \$1,624,629, respectively.

13. Related Party Transactions

During the years ended September 30, 2014 and 2015, the following related party transactions occurred:

- During the years ended September 30, 2014 and 2015, the Company provided \$666,110 and \$783,707 of non-interest bearing advances to the Company's founding stockholder and CEO, of which \$550,000 and \$395,257 was repaid, respectively. Additionally, the CEO has deferred a portion of his salary, bonus, and related benefits during the years ended September 30, 2014 and 2015 and applied such deferrals against previous advances. As of September 30, 2015, the Company had accrued compensation payments of \$117,506, due to the CEO.
- In March 2015, a director of the Company loaned \$1,000,000 to the Company with an interest rate of 24%. The loan was repaid in October 2015 and included \$128,219 in accrued interest.
- In June 2014, the Company repurchased 400,000 shares of restricted stock from a director of the Company in exchange for \$200,000 stockholder note at a zero interest rate due September 1, 2015. Terms of the grant and repurchase were the same as non-related parties. Refer to notes 7 and 10.

■ During the years ended September 30, 2014 and 2015, the Company repurchased 1,250 shares of Series A redeemable preferred stock and satisfied accrued dividends of \$326,354 from three directors of the Company in exchange for \$650,000 in cash payments and the issuance of \$1,850,000 in stockholder notes. The notes bear interest at 4% which are due on demand as of September 30, 2015. Under the terms of the agreement, because the notes were not paid upon maturity, they now bear interest at 6%. Terms of the share repurchase were the same as non-related parties. Refer to notes 7 and 10.

14. Income Taxes

Income tax expense (benefit) for the years ended September 30, 2014 and 2015 consists of the following:

	Year Ended S	Year Ended September 30,			
	2014	2015			
State tax, including sale of New Jersey losses and credits	\$ (833,403)	(725,969)			
Foreign tax provision	1,272,421	535,858			
	\$ 439,018	\$ (190,111)			

The Company has been eligible to receive cash from the sale of its net operating losses ("NOLs") and R&D tax credits under the State of New Jersey Technology Business Tax Certificate Transfer Program. During the years ended September 30, 2014 and 2015, the Company received \$835,153 and \$728,218, respectively, from the sale of New Jersey NOLs. In addition, the Company incurred \$1.3 million and \$0.5 million of foreign withholding taxes in connection with the Company's collaboration and licensing agreements during the years ended September 30, 2014 and 2015, respectively.

A reconciliation of income tax expense (benefit) at the statutory U.S. federal income tax rate and the Company's effective tax rate is as follows:

	Year Ended Se	eptember 30,
	2014	2015
U.S. federal statutory rate	(34.0)%	(34.0)%
State taxes, net of federal benefit	(5.1)	(5.5)
Foreign withholding tax	9.6	1.1
Permanent differences	2.7	1.8
Foreign tax credits	(9.6)	(1.1)
Research and development credit	(11.7)	(6.9)
Change in valuation allowance	51.1	44.6
Other	0.3	(0.4)
Effective income tax rate	3.3%	(0.4)%

The tax effects of the temporary differences that gave rise to deferred taxes were as follows:

	Year Ended	September 30,
	2014	2015
Current and long term deferred tax assets:		
Net operating loss carryforwards	\$ 7,340,745	\$ 20,164,392
Stock compensation	1,853,056	6,317,492
Deferred revenue	3,121,214	3,333,201
Research and development credit carryforward	2,680,441	5,979,964
Foreign tax credits	2,067,091	2,602,949
Accruals and others	1,040,117	1,072,422
Gross deferred tax assets	(18,102,664)	(39,470,420
Less valuation allowance	(17,400,409)	(38,694,795
	702,255	775,625
Deferred tax liability:		
Fixed assets	(702,255)	(775,625
Net deferred tax assets	\$	\$ —

As of September 30, 2015, the Company has approximately \$52.9 million and \$36.9 million of Federal and New Jersey net operating losses that will begin to expire in 2030 and 2032, respectively. As of September 30, 2015, the Company also had federal and state research and development tax credit carryforwards of \$4.2 million and \$1.7 million, respectively, which begin to expire in 2021. As of September 30, 2015, the Company had Federal foreign tax credit carryforwards of \$2.6 million available to reduce future tax liabilities, which will begin to expire at various dates starting in 2023. \$1.8 million of the FTC carryforward is included in the balance of unrecognized tax benefits. Realization of the deferred tax asset is contingent on future taxable income and based upon the level of historical losses, management has concluded that the deferred tax asset does not meet the more-likely-than-not threshold for realizability. Accordingly, a full valuation allowance continues to be recorded against the Company's deferred tax assets as of September 30, 2014 and 2015.

When uncertain tax positions exist, the Company recognizes the tax benefit of tax positions to the extent that the benefit will more likely-than-not be realized. The determination as to whether the tax benefit will more-likely-than-not be realized is based upon the technical merits of the tax position as well as consideration of the available facts and circumstances. The Company recognizes interest and penalties accrued on any unrecognized tax benefits within the provision for income taxes in its consolidated statements of operations. As of September 30, 2014 and 2015, the Company does not have any significant uncertain tax positions. The Company's income tax returns for the years from 2011 through 2014 remain open for examination by the Internal Revenue Service as well as various states and municipalities.

The Company does not recognize tax benefits that are not more-likely-than-not to be supported based upon the technical merits of the tax position taken. A reconciliation of the beginning and ending amount of unrecognized tax benefits is as follows:

	Year Ended S	Year Ended September 30,			
	2014	2015			
Balance at beginning of year	\$ 479,490	\$ 1,564,411			
Additions based on tax positions related to the current year	1,084,921	190,218			
Balance at end of year	\$1,564,411	\$ 1,754,629			

The Company does not anticipate material change in the unrecognized tax benefits in the next 12 months. These unrecognized tax benefits, if recognized, would affect the annual effective tax rate.

Due to the change in ownership provisions of the Internal Revenue Code, the availability of the Company's net operating loss carryforwards may be subject to annual limitations against taxable income in future periods, which could substantially

limit the eventual utilization of such carryforwards. The Company has not analyzed the historical or potential impact of its equity financings on beneficial ownership and therefore no determination has been made whether the net operating loss carry forward is subject to any Internal Revenue Code Section 382 limitation. To the extent there is a limitation, there would be a reduction in the deferred tax assets with an offsetting reduction in the valuation allowance.

15. Subsequent Events

The Company has evaluated subsequent events from the balance sheet date through the date of the filing, the date at which the consolidated financial statements were available to be issued, and determined there are no other items requiring disclosure.

Oncobiologics, Inc. Consolidated Balance Sheets (unaudited)

	September 30, 2015	December 31, 2015	Pro Forma December 31, 2015
Assets			
Current assets:			
Cash	\$ 9.070.975	\$ 5.582.255	\$ 10.806.90
Accounts receivable	20,000	103,090	103,09
Stock subscription receivable	4,280,149	2,749,997	103,09
Related party receivable	4,200,149	639.173	639.17
	1,793,109	1,651,036	1,651,03
Prepaid and other current assets			
Total current assets	15,164,233	10,725,551	13,200,20
Property and equipment, net	17,759,938	17,504,020	17,504,02
Restricted cash	213,663	213,663	213,66
Deferred offering costs	960,563	1,974,844	1,974,84
Other assets	910,224	904,791	904,79
Total assets	\$ 35,008,621	\$ 31,322,869	\$ 33,797,51
.iabilities, redeemable preferred stock, common stock, noncontrolling interests and stockholders' equity (deficit)			
Current liabilities:			
Current portion of debt	\$ 742,646	\$ 751,190	\$ 751,19
Current portion of capital lease obligations	862,849	864,902	864,90
Current portion of stockholder notes	14,214,196	10,140,813	10,140,81
Accounts payable	11,563,055	11,667,512	11,616,99
Accrued expenses	5,924,648	8,604,917	8,604,91
Income taxes payable	1,754,629	1,804,629	1,804,62
Deferred revenue	1,979,576	1,979,576	1,979,57
Total current liabilities	37,041,599	35,813,539	35,763,01
ong-term debt	2,922,764	2,737,227	2,737,22
Capital lease obligations	1,219,373	994,668	994,66
Stockholder notes	2,000,000	994,000	994,00
Deferred revenue	6,365,945	5,871,051	5,871,05
		5,671,051	5,671,05
Stock-based compensation liability	12,726,722	454.000	454.00
Other liabilities	284,710	454,988	454,98
Total liabilities	62,561,113	45,871,473	45,820,95
Redeemable preferred stock, common stock and noncontrolling interests:			
Redeemable preferred stock, no par value: Series A – 8,000 shares authorized; 3,568 issued and outstanding at September 30, 2015; No shares authorized, issued or outstanding at			
December 31, 2015	5,072,653	_	-
Series B – 4,000 shares authorized, issued and outstanding at September 30, 2015; No shares authorized, issued or outstanding at December 31, 2015	5,118,208	_	_
Redeemable common stock – 6,000,000 shares issued and outstanding at			
September 30, 2015 and December 31, 2015 actual	15,426,673	16,366,212	-
Redeemable noncontrolling interests	1,703,777		
Total redeemable preferred stock, common stock and noncontrolling interests	27,321,311	16,366,212	_
Stockholders' equity (deficit): Series A preferred stock, par value \$0.01 per share: 10,0000,000 shares authorized,			
11,819 shares issued and outstanding at December 31, 2015 (liquidation prefence of \$11,819,000 at December 31, 2015)	_	118	_
Common stock, par value \$0.01 per share; 100,000,000 shares authorized at December 31, 2015; 42,572,738 shares issued and outstanding at December 31,			400.05
2015 actual and shares issued and outstanding pro forma Common stock, no par value; 100,000,000 shares authorized; 32,555,266 shares issued and outstanding at September 30, 2015; no shares authorized issued or outstanding at December 31, 2015	39.844.900	425,727	488,85
	39,044,900		
Additional paid-in capital		79,587,837	98,416,20
Accumulated deficit	(94,064,286)	_(110,928,498)	_(110,928,49
Total Oncobiologics, Inc. stockholders' equity (deficit)	(54,219,386)	(30,914,816)	(12,023,43
Non controlling interests	(654,417)	(51,51,510)	(==,==5,+0
		(20.014.010)	(10.000.10
Total stockholders' equity (deficit)	(54,873,803)	(30,914,816)	(12,023,43
Total liabilities, redeemable preferred stock, common stock, noncontrolling interests and stockholders' equity (deficit)	\$ 35,008,621	\$ 31,322,869	\$ 33,797,51

Oncobiologics, Inc. Consolidated Statements of Operations (unaudited)

	Three Months Ended December 3			
		2014		2015
Collaboration revenues	\$	2,934,555	\$	994,894
Operating expenses:		_		
Research and development		5,840,030		12,733,976
General and administrative		1,237,839		4,674,155
		7,077,869		17,408,131
Loss from operations		(4,143,314)		(16,413,237
Interest expense		357,580		398,975
Loss before income taxes		(4,500,894)		(16,812,212
Income tax expense		406,363		52,000
Net loss		(4,907,257)		(16,864,212
Accretion of redeemable preferred stock and noncontrolling interests		(1,071,164)		(939,539
Deemed dividends upon the repurchase of Series A redeemable preferred stock and redeemable noncontrolling interests		(1,230,998)		
Net loss attributable to common stockholders of Oncobiologics, Inc.	\$	(7,209,419)	\$	(17,803,751
Per share information:	_		_	
Net loss per share of common stock, basic and diluted	\$	(0.22)	\$	(0.40
Weighted average shares outstanding, basic and diluted		32,352,231		45,062,494
Pro forma net loss per share of common stock – basic and diluted				
Pro forma weighted average shares outstanding			_	

Oncobiologics, Inc. Consolidated Statements of Redeemable Preferred Stock, Common Stock, Noncontrolling Interests and Stockholders' Equity (Deficit) For the Three Months Ended December 31, 2015 (unaudited)

	Redeemable Preferred Stock, Common Stock and Noncontrolling Interests							Stockholders' Equity (Deficit)							
		Preferre		ries B	Comm	on Stock		Carios A Dr	eferred Stock	Commo	on Stock	Additional			Total Stockholders'
			Shares	Amount	Shares	Amount	Noncontrolling Interests	Shares	Amount	Shares	Amount	Paid-in Capital	Accumulated Deficit	Noncontrolling Interests	Equity (Deficit)
Balance at October 1, 2015	3,568	\$ 5,072,653	4,000	\$ 5,118,208	6,000,000	\$15,426,673	\$ 1,703,777	_	\$ —	32,555,266	\$ 39,844,900		\$ (94,064,286)	\$ (654,417)	\$ (54,873,803)
Deconsolidation of Sonnet Biotherapeutics, Inc.	_	_	_	_	_	_	_	_	_	_	_	_	_	654,417	654,417
Employee tax witholdings related to the vesting of restricted stock	_	_	_	_	_	_	_	_	_	(9,600)	(71,760)	_	_	_	(71,760)
Reincorporation to a Delaware Corporation	(3,568)	(5,072,653	(4,000)	(5,118,208) —	_	_	10,193	102	7,568,000	(39,372,004)	49,562,763	_	_	10,190,861
Issuance of preferred and common stock upon the dissolution of Parilis	_	_	_	_	_	_	(1,703,777)	1,626	16	782,000	7,820	1,695,941	_	_	1,703,777
Sale of common stock, net of issuance costs	_	_	_	_	_	_	_	_	_	1,677,072	16,771	14,051,916	_	_	14,068,687
Reclassification of stock-based compensation liability	_	_	_	_	_	_	_	_	_	_	_	15,118,584	_	_	15,118,584
Stock-based compensation expense	_	_	_	_	_	_	_	_	_	_	_	98,172	_	_	98,172
Accretion of redeemable common stock	_	_	_	_	_	939,539	_	_	_	_	_	(939,539) —	_	(939,539)
Net loss		_		_									(16,864,212)		(16,864,212)
Balance at December 31, 2015		· —		\$	6,000,000	\$16,366,212	\$	11,819	\$ 118	42,572,738	\$ 425,727	\$79,587,837	\$(110,928,498)	\$ _	\$ (30,914,816)

Oncobiologics, Inc. Consolidated Statements of Cash Flows (unaudited)

	Three Months En	s Ended December 31, 2015				
Operating activities:	+ (1.00= or=:	* (10.001.5:=:				
Net loss	\$ (4,907,257)	\$ (16,864,212)				
Adjustments to reconcile net loss to net cash used in operating activities: Depreciation and amortization	222.075	E02.077				
Non-cash interest expense	222,075 2,117	593,977 3,065				
Stock-based compensation	145,674	2,490,034				
Changes in operating assets and liabilities:	145,074	2,430,034				
Accounts receivable	(2,501,360)	(83,090)				
Prepaid expenses and other current assets	(702,599)	142.073				
Other assets	_	5,433				
Accounts payable	1,594,145	(233,942)				
Accrued expenses	239,224	2,203,188				
Income taxes payable	226,113	50,000				
Deferred revenue	2,015,445	(494,894)				
Other liabilities		176,087				
Net cash used in operating activities	(3,666,423)	(12,012,281)				
Investing activities:						
Purchase of property and equipment	(527,877)	(364,242)				
Net cash used in investing activities	(527,877)	(364,242)				
· ·	(021,011)	(00.,2.12)				
Financing activities:						
Repurchase of Series A redeemable preferred stock	(50,001)	_				
Proceeds from the sale of common stock	_	11,318,690				
Proceeds from subscriptions receivable	_	4,280,149				
Proceeds from future stock issuance	_	50,520				
Payments of capital leases obligations	(88,984)	(222,652)				
Repayment of debt	(189,938)	(180,058)				
Proceeds from stockholder notes	4,000,000	_				
Repayment of stockholder notes	_	(6,073,383)				
Change in restricted cash	(550)	_				
Proceeds from related party receivable	_	187,388				
Deconsolidation of Sonnet Biotherapeutics, Inc.	_	(401,091)				
Payment of employee tax witholdings related to the vesting of restricted stock	_	(71,760)				
Net cash provided by financing activities	3,670,527	8,887,803				
Net decrease in cash	(523,773)	(3,488,720)				
Cash at beginning of period	2,349,313	9,070,975				
Cash at end of period	\$ 1,825,540	\$ 5,582,255				
Cash at the or period	<u> </u>	Φ 0,002,200				
Supplemental disclosure of cash flow information						
Cash paid for interest	\$ 265,078	\$ 496,296				
Cash paid for taxes	\$ 250	\$ 2,000				
Supplemental schedule of noncash investing activities:	Ψ 230	Ψ 2,000				
Purchases of property and equipment in accounts payable and accrued expenses	\$ (402,050)	\$ (200,780)				
Purchases of property and equipment in accounts payable and accrued expenses	\$ (402,050)	\$ (200,780)				
Supplemental schedule of noncash financing activities:						
Accretion of redeemable preferred stock, common stock and noncontrolling interests	\$ 1,071,164	\$ 939,539				
Deemed dividend upon repurchase of Series A redeemable preferred stock in excess of						
carrying value	\$ 1,230,998	\$ —				
Issuance of common stock and Series A preferred stock to redeemable preferred						
stockholders and noncontrolling interests upon reincorporation	<u> </u>	\$ (11,894,638)				
Reclassification of equity classified stock-based compensation	\$ —	\$ (15,118,584)				
Issuance of capital lease obligations in connection with purchase of property and equipment	\$ 523,293	\$ —				
Issuance of notes payable upon repurchase of redeemable noncontrolling interests	\$ 2.761.818	\$ —				
Issuance of subscription receivable upon sale of common stock	\$ —	\$ (2,749,997)				
Deferred offering costs and common stock issuance costs in accounts payable and accrued		ф. (1.01.4.004)				
expenses	<u> </u>	\$ (1,014,281)				
	_					

Oncobiologics, Inc. Notes to Unaudited Interim Consolidated Financial Statements

1. Organization and Description of Business

Oncobiologics, Inc. ("Oncobiologics" or the "Company") was incorporated in New Jersey on January 5, 2010 and started operations in July 2011. Oncobiologics is a clinical-stage biopharmaceutical company focused on identifying, developing, manufacturing and commercializing complex biosimilar therapeutics in the disease areas of immunology and oncology. The Company has established fully integrated in-house development and manufacturing capabilities that addresses the numerous complex technical and regulatory challenges in developing and commercializing mAb biosimilars. Since inception, the Company has advanced two product candidates into clinical trials: a Phase 3-ready biosimilar to adalimumab (Humira[®]) and a Phase 3-ready biosimilar to bevacizumab (Avastin[®]). Additionally, the Company has six preclinical biosimilar product candidates under active development, two of which are expected to enter clinical trials in 2016

In October 2015, the Company reincorporated in Delaware through the merger with and into Oncobiologics, Inc., a newly formed Delaware corporation, with the Delaware corporation surviving the merger. As a result of the merger, each share of the Company's previously issued and outstanding common stock converted into and became a share of common stock of the Delaware corporation on a 1-for-1 basis, each share of the Company's previously issued and outstanding Series A redeemable preferred stock converted into 1,000 shares of common stock and approximately 1.4035 shares of Series A preferred stock of the Delaware corporation, and each share of the Company's previously issued and outstanding Series B redeemable preferred stock converted into 1,000 shares of common stock and approximately 1.2867 shares of Series A preferred stock of the Delaware corporation. The holders of Series A and B preferred stock also received an aggregate of 10,193 shares of Series A preferred stock of the Delaware corporation. Additionally, effective upon the reincorporation and in connection with the dissolution of the Company's business development subsidiary, Parilis Biopharmaceuticals ("Parilis"), the Company issued 782,000 shares of common stock and 1,626 shares of Series A preferred stock to the holders of outstanding Parilis preferred member units in exchange for all such units.

2. Liquidity

The Company has incurred substantial losses and negative cash flows from operations since its inception and has an accumulated deficit of \$94.1 million and \$110.9 million as of September 30, 2015 and December 31, 2015, respectively. In addition, the Company has \$14.2 million and \$10.1 million of indebtedness that is due on demand as of September 30, 2015 and December 31, 2015, respectively. These factors raise substantial doubt about the Company's ability to continue as a going concern. The accompanying unaudited interim consolidated financial statements have been prepared on a going concern basis, which contemplate the realization of assets and satisfaction of liabilities in the normal course of business. The unaudited interim consolidated financial statements do not include any adjustments related to the recoverability and classification of recorded asset amounts or the amounts and classification of liabilities that might result from the outcome of this uncertainty.

The Company has substantial indebtedness that includes \$10.1 million in notes payable to stockholders that are payable on demand. There can be no assurance that note holders will not exercise their right to demand repayment.

The Company anticipates incurring additional losses until such time, if ever, that it can generate significant sales of its products currently in development. Substantial additional financing will be needed by the Company to fund its operations and to commercially develop its product candidates. Management is currently evaluating different strategies to obtain the required funding for future operations. These strategies may include, but are not limited to: private placements of equity and/or debt, payments from potential strategic research and development, licensing and/or marketing arrangements with pharmaceutical companies, and public offerings of equity and/or debt securities. There can be no assurance that these future funding efforts will be successful.

3. Basis of Presentation and Summary of Significant Accounting Policies

Basis of Presentation

The accompanying unaudited interim consolidated financial statements have been prepared in conformity with U.S. generally accepted accounting principles ("GAAP") for interim financial information. Any reference in these notes to applicable guidance is meant to refer to GAAP as found in the Accounting Standards Codification ("ASC") and Accounting Standards Updates ("ASU") of the Financial Accounting Standards Board ("FASB").

In the opinion of management, the accompanying consolidated financial statements include all normal and recurring adjustments (which consist primarily of accruals, estimates and assumptions that impact the financial statements) considered necessary to present fairly the Company's financial position as of December 31, 2015 and its results of operations and cash flows for the three months ended December 31, 2014 and 2015. Operating results for the three months ended December 31, 2015 are not necessarily indicative of the results that may be expected for the year ending September 30, 2016. The interim financial statements, presented herein, do not contain the required disclosures under GAAP for annual financial statements. The accompanying unaudited interim financial statements should be read in conjunction with the annual audited financial statements and related notes as of and for the year ended September 30, 2015.

Unaudited pro forma balance sheet

The unaudited pro forma consolidated balance sheet as of December 31, 2015 assumes the following:

- The issuance of 301,152 shares of common stock in January 2016 for a purchase price of \$8.42 per share for approximately \$2.5 million net proceeds.
- Cash proceeds of approximately \$2.7 million received subsequent to December 31, 2015 related to stock issued in December 2015.
- The conversion of shares of Series A preferred stock into shares of common stock.
- The reclassification of 6,000,000 shares of redeemable common stock upon lapse of a contractual redemption right.

Use of estimates

The preparation of the unaudited interim consolidated financial statements in conformity with GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates. Due to the uncertainty of factors surrounding the estimates or judgments used in the preparation of the unaudited interim consolidated financial statements, actual results may materially vary from these estimates. Estimates and assumptions are periodically reviewed and the effects of revisions are reflected in the unaudited interim consolidated financial statements in the period they are determined to be necessary.

Income taxes

For the three months ended December 31, 2014 and 2015, the Company recorded tax expense of \$406,363 and \$52,000, respectively, which is attributable to the foreign withholding taxes in connection with the Company's collaboration and licensing agreements.

Net loss per share

Basic and diluted net loss per common share is determined by dividing net loss applicable to common stockholders by the weighted-average common shares outstanding during the period. For all periods presented, the outstanding shares of preferred stock have been excluded from the calculation because their effects would be anti-dilutive. Therefore the weighted-average shares used to calculate both basic and diluted loss per share are the same.

The following potentially dilutive securities have been excluded from the computation of diluted weighted-average shares outstanding as of December 31, 2014 and 2015, as they would be antidilutive:

	Decem	December 31,	
	2014	2015	
Series A redeemable preferred stock	3,656,000	_	
Series B redeemable preferred stock	4,000,000	_	
Series A preferred stock	_	11,819,000	
Performance share units	_	860,880	
Restricted stock units	_	3,678,425	
Unvested shares of restricted common stock	112,000	_	
Convertible stockholder note	333,333	333,333	

Amounts in the table above reflect the common stock equivalents of the noted instruments.

The unaudited pro forma net loss per common share is computed using the weighted-average number of common shares outstanding and assumes the issuance of shares of common stock upon settlement of the Series A liquidation value of \$11,819,000 using the estimated midpoint per share price of \$. The pro forma weighted-average shares outstanding of was used to compute the pro forma net loss per common share.

The following table summarizes the calculation of unaudited pro forma basic and diluted net loss per common share:

Numerator:	
Net loss applicable to common stockholders of Oncobiologics, Inc.	\$ (17,803,751)
Effect of pro forma adjustments:	
Accretion of redeemable common stock	939,539
Pro forma net loss attributable to common stockholders of Oncobiologics, Inc.	\$ (16,864,212)
Denominator:	
Weighted-average common shares outstanding	
Conversion of Series A preferred stock liquidation value	
Shares used in computing unaudited pro forma weighted-average basic and diluted common shares outstanding	
Unaudited pro forma basic and diluted net loss per common share	\$

4. Fair Value Measurements

Certain assets and liabilities are carried at fair value under GAAP. Fair value is defined as the exchange price that would be received for an asset or paid to transfer a liability (an exit price) in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants on the measurement date. Valuation techniques used to measure fair value must maximize the use of observable inputs and minimize the use of unobservable inputs. Financial assets and liabilities carried at fair value are to be classified and disclosed in one of the following three levels of the fair value hierarchy, of which the first two are considered observable and the last is considered unobservable:

- Level 1 Quoted prices in active markets for identical assets or liabilities
- Level 2 Observable inputs (other than Level 1 quoted prices), such as quoted prices in active markets for similar assets or liabilities, quoted prices in markets that are not active for identical or similar assets or liabilities, or other inputs that are observable or can be corroborated by observable market data.
- Level 3 Unobservable inputs that are supported by little or no market activity and that are significant to
 determining the fair value of the assets or liabilities, including pricing models, discounted cash flow
 methodologies and similar techniques.

The asset's or liability's fair value measurement level within the fair value hierarchy is based on the lowest level of any input that is significant to the fair value measurement. Valuation techniques used need to maximize the use of observable inputs and minimize the use of unobservable inputs.

The following table presents the Company's assets and liabilities that are measured at fair value on a recurring basis:

		September 30, 2015	
	(Level 1)	(Level 2)	(Level 3)
Liabilities			
Stock-based compensation liability	<u> </u>	<u> </u>	\$ 12,726,722

The table presented below is a summary of changes in the fair value of the Company's Level 3 valuation for the stock-based compensation liability for the three months ended December 31, 2015:

Balance at October 1, 2015	\$ 12,726,722
Change in fair value	2,391,862
Reclassification to stockholders' equity	(15,118,584)
Balance at December 31, 2015	<u> </u>

As of December 31, 2015, the Company has no assets or liabilities that were measured at fair value.

The Company has issued stock-based performance units ("PSUs"), which generally have a ten year life from the date of grant and vest 50% after the third anniversary from issuance and the remaining 50% on the fourth anniversary. In addition, the PSUs are exercisable upon the earlier of (i) a change in control, (ii) consummation of an initial public offering, or (iii) a corporate valuation in excess of \$400 million and at the discretion by the Company's Board of Directors. Upon exercise, the PSU holder received a cash payment for the difference between the current per share value of the Company and the base price of the PSU. Given the cash settlement, the PSUs were liability classified and re-measured at each reporting date with changes in fair value recorded within the Company's consolidated statements of operations. In December 2015, the PSUs were modified to provide for settlement in common stock or cash, at the Company's discretion. As a result of this modification, the carrying value of the PSUs was reclassified to stockholders' equity (deficit).

The PSUs contain a market condition as the exercisability of the awards are based on the Company achieving a market value of \$400 million during the relevant performance period. The fair value of the market condition is valued using a Monte Carlo simulation model. The significant assumptions used in preparing the Monte Carlo simulation model include (i) volatility of the Company's common stock, (ii) risk free interest rate, (iii) base price of the PSUs, (iv) fair value of the Company's common stock and enterprise value of the Company, and (v) derived service period.

The fair value of the PSUs of \$6.44 and \$7.45 per PSU at September 30, 2015 and December 31, 2015, respectively, was derived using the following assumptions:

	September 30, 2015	December 31, 2015
Risk-free interest rate	1.4%	1.2%
Derived service period	5 years	3 years
Expected volatility	60%	55%
Annual dividend yield	0%	0%
Fair value of common stock	\$7.475 per share	\$8.42 per share

5. Property and Equipment

Property and equipment, net, consists of:

	September 30, 2015	December 31, 2015
Laboratory equipment	\$ 10,936,364	\$ 10,841,019
Leasehold improvements	9,889,521	9,927,614
Computer software and hardware	402,075	419,684
Construction in process	175,425	484,985
	21,403,385	21,673,302
Less: accumulated depreciation and amortization	(3,643,447)	(4,169,282)
	\$ 17,759,938	\$ 17,504,020

Depreciation and amortization expense for the three months ended December 31, 2014 and 2015 was \$222,075 and \$593,977, respectively.

At September 30, 2015 and December 31, 2015, \$3,530,301 represents laboratory equipment under capital leases. The term of the leases are between 11 and 36 months and qualify as capital leases. The leases bear interest between 8.6% and 21.4%. At September 30, 2015 and December 31, 2015, \$407,210 and \$538,308, respectively, of accumulated depreciation related to this leased equipment has been recognized.

6. Accrued Expenses

Accrued expenses consists of:

	September 30, 2015	December 31, 2015
Compensation	\$ 2,321,508	\$ 2,535,850
Research and development	951,759	2,342,960
Interest payable	806,475	671,532
Deferred offering costs	657,892	1,434,973
Professional fees	594,572	938,426
Director fees	414,421	464,422
Other accrued expenses	178,021	216,754
	\$ 5,924,648	\$ 8,604,917

7. Redeemable Preferred Stock, Common Stock, Noncontrolling Interests and Stockholders' Equity (Deficit)

Common stock

During the three months ended December 31, 2015, the Company sold 1,677,072 shares of its common stock at \$8.42 per share raising \$14,068,687 in net proceeds, of which \$2,749,997 was received in January 2016.

Each holder of common stock is entitled to one vote for each share on all matters submitted to a vote of the stockholders. Each share of common stock entitles the holder to one vote on all matters submitted to a vote of the Company's stockholders. Subject to preferences that may apply to any outstanding preferred stock, holders of common stock are entitled to receive ratably any dividends that the Company's board of directors may declare out of funds legally available for that purpose on a non-cumulative basis. No dividends had been declared through December 31, 2015.

Series A preferred stock

In the event of a liquidation, dissolution or winding up of the Company, either voluntary or involuntary, or in the event of a Deemed Liquidation Event, as defined, holders of Series A preferred stock ("Series A") are entitled to receive, in preference to all other stockholders, an amount equal to the original issue price, as defined in the Articles of Incorporation for the Series A, plus any unpaid accrued dividends. If upon the occurrence of such event, the assets and funds thus distributed among the holders of the Series A shall be insufficient to pay such holders, then the entire assets and funds of the Company legally available for distribution shall be distributed ratably among the holders of the Series A in proportion to the respective amount of such stock owned by each such holder.

The Company may redeem the Series A, in whole at any time and from time to time in part, at the option of the Company, for cash, at a redemption price equal to the Original Issuance Price plus any unpaid accrued dividends. The holders of the Series A have no voting rights outside of matters directly related to Series A preferred stock. Immediately prior to the closing of an initial public offering, any outstanding shares of Series A will automatically convert into shares of common stock at a conversion price equal to the initial public offering price per share and divided by the liquidation values of the Series A.

Deconsolidation of noncontrolling interests

Through September 30, 2015, the Company consolidated the operations of Sonnet Biotherapeutics, Inc. ("Sonnet"), which was spun-off to the Company's stockholders in April 2015, since the Company was the primary funding source to Sonnet

through September 2015. Effective October 1, 2015, additional capital was contributed to Sonnet by third-party investors triggering a reconsideration event, which resulted in the Company no longer being considered the primary beneficiary and as a result, the Company has deconsolidated Sonnet. Sonnet issued the Company a \$826,561 promissory note which reflects the funding the Company provided Sonnet through September 30, 2015. The note bears interest at 3.0% and matures September 30, 2016. There were no gains or losses recognized upon deconsolidation since no equity interest was owned by the Company.

8. Stock-Based Compensation

2011 Equity Incentive Plan

The Company's 2011 Equity Compensation Plan (the "2011 Plan") provides for the Company to sell or issue restricted common stock, restricted stock units ("RSUs"), performance-based awards, cash-based awards or to grant stock options for the purchase of common stock. The 2011 Plan is administered by the board of directors or, at the discretion of the board of directors, by a committee of the board. The number of shares of common stock reserved for issuance under the 2011 Plan is 4,000,000, which may be granted to officers, employees, consultants and directors of the Company. As of December 31, 2015, performance-based stock units ("PSUs") representing 860,880 shares of the Company's common stock were outstanding under the 2011 Plan. Upon the adoption of the 2015 Equity Incentive Plan, no future awards under the 2011 Plan will be issued.

2015 Equity Incentive Plan

In December 2015, the Company adopted the 2015 Equity Incentive Plan (the "2015 Plan"). The 2015 Plan provides for the grant of stock options, stock appreciation rights, restricted stock awards, restricted stock unit awards, performance stock awards and other forms of equity compensation to employees, directors and consultants. The maximum number of shares of common stock that may be issued under the 2015 Plan is 4,300,000 shares. As of December 31, 2015, RSUs representing 3,678,425 shares of the Company's common stock were outstanding under the 2015 Plan and 621,575 shares remained available for grant under the 2015 Plan.

The Company recorded stock-based compensation expense in the following expense categories of its statements of operations for the three months ended December 31, 2014 and 2015:

	Decer	December 31,	
	2014	2015	
Research and development	\$ 84,275	\$ 1,356,408	
General and administrative	61,399	1,133,626	
	\$145,674	\$ 2,490,034	

	Decer	December 31,	
	2014	2015	
Equity-classified compensation	\$ 2,231	\$ 98,172	
Liability-classified compensation	143,443	2,391,862	
	\$ 145,674	\$ 2,490,034	

Performance-based stock units

The Company has issued PSUs, which generally have a ten year life from the date of grant and vest 50% after the third anniversary from issuance and the remaining 50% on the fourth anniversary. The PSUs are exercisable upon the earlier of (i) a change in control, (ii) consummation of an initial public offering, or (iii) a corporate valuation in excess of \$400 million and at the discretion by the Company's board of directors. Upon exercise, the PSU holder receives common stock or cash, at the Company's discretion. See note 4 for discussion of fair value of the PSUs.

The following table summarizes the PSU activity for the three months ended December 31, 2015:

	Number of PSUs	Base Price Per PSU
Balance at October 1, 2015	2,370,280	\$ 1.00
Forfeitures	(9,400)	1.00
Exchanged for restricted stock units	(1,500,000)	1.00
Balance at December 31, 2015	860,880	\$ 1.84

In December 2015, the Company completed a tender-offer to holders of outstanding PSUs to amend the terms of such outstanding awards to increase the base price to an amount equal to the fair market value of a share of the Company's common stock on the date of grant of the PSU, remove the right to be paid dividend equivalents and provide for settlement in shares of the Company's common stock or cash, at the Company's discretion. Upon amending the settlement terms of the PSUs, the Company reclassified the stock-based compensation liability to additional paid-in capital

Concurrent with the tender-offer, several PSU holders cancelled an aggregate of 1,500,000 PSUs in exchange for 1,350,000 restricted stock units ("RSUs"). The Company accounted for the exchange as a modification, and, as a result, recognized \$98,172 of additional stock-based compensation during the three months ended December 31, 2015 based on the fair value of the RSUs in excess of the fair value of the PSUs exchanged.

As of December 31, 2015, there was \$1,100,000 of unamortized expense that will be recognized in future periods.

Restricted stock units

The following table summarizes the activity related to RSUs granted during the three months ended December 31, 2015:

	Number of RSUs	Grant Date Fair Value
Balance at October 1, 2015	_	\$ —
Granted	2,328,425	8.42
Issued in connection with PSU exchange	1,350,000	8.42
Balance at December 31, 2015	3,678,425	\$ 8.42

As of December 31, 2015, there were 1,338,700 RSUs that will vest upon the closing of the Company's IPO or a change in control. The remaining 2,339,725 RSUs will vest upon an IPO or change in control and over the following time-based vesting periods:

- 1,814,725 RSUs with 50% vesting on each of the first and second anniversaries of the recipient's grant date
- 75,000 RSUs with one-third vesting on each of the first, second, and third anniversaries of the recipient's hire date
- 450,000 RSUs with 50% vesting on each of the third and fourth anniversaries of the recipient's hire date

The closing of an IPO or a change in control are performance conditions that are outside the Company's control. Therefore, the Company will not recognize any stock-based compensation for the RSUs until the performance conditions have been achieved. As of December 31, 2015, there was \$21,100,000 of unamortized expense.

Shares



PRELIMINARY PROSPECTUS

Jefferies

Barclays

Cantor Fitzgerald & Co.

, 2016

Until , 2016 (25 days after the date of this prospectus), all dealers that buy, sell or trade shares of our common stock, whether or not participating in this offering, may be required to deliver a prospectus. This delivery is in addition to a dealer's obligation to deliver a prospectus when acting as an underwriter and with respect to their unsold allotments or subscriptions.

PART II

INFORMATION NOT REQUIRED IN PROSPECTUS

Item 13. Other Expenses of Issuance and Distribution.

The following table sets forth the costs and expenses, other than the underwriting discounts and commissions, payable by the registrant in connection with the sale of our common stock being registered. All amounts are estimates except for the Securities and Exchange Commission, or SEC, registration fee, the Financial Industry Regulatory Authority, or FINRA, filing fee and the NASDAQ Global Market, or NASDAQ, listing fee.

Item	Amount to be paid
SEC registration fee	\$ 11,580.50
FINRA filing fee	17,750
NASDAQ listing fee	*
Printing and engraving expenses	*
Legal fees and expenses	*
Accounting fees and expenses	*
Transfer agent fees and expenses	*
Miscellaneous expenses	*
Total	\$ *

To be filed by amendment.

Item 14. Indemnification of Directors and Officers.

As permitted by Section 102 of the Delaware General Corporation Law, we have adopted provisions in our amended and restated certificate of incorporation and amended and restated bylaws that limit or eliminate the personal liability of our directors for a breach of their fiduciary duty of care as a director. The duty of care generally requires that, when acting on behalf of the corporation, directors exercise an informed business judgment based on all material information reasonably available to them. Consequently, a director will not be personally liable to us or our stockholders for monetary damages for breach of fiduciary duty as a director, except for liability for:

- any breach of the director's duty of loyalty to us or our stockholders;
- any act or omission not in good faith or that involves intentional misconduct or a knowing violation of law;
- any act related to unlawful stock repurchases, redemptions or other distributions or payment of dividends; or
- any transaction from which the director derived an improper personal benefit.

These limitations of liability do not affect the availability of equitable remedies such as injunctive relief or rescission. Our amended and restated certificate of incorporation also authorizes us to indemnify our officers, directors and other agents to the fullest extent permitted under Delaware law.

As permitted by Section 145 of the Delaware General Corporation Law, our amended and restated bylaws provide that:

- we may indemnify our directors, officers and employees to the fullest extent permitted by the Delaware General Corporation Law, subject to limited exceptions;
- we may advance expenses to our directors, officers and employees in connection with a legal proceeding to the fullest extent permitted by the Delaware General Corporation Law, subject to limited exceptions; and
- the rights provided in our bylaws are not exclusive.

Our certificate of incorporation, attached as Exhibit 3.1, and our bylaws, attached as Exhibit 3.3, provide for the indemnification provisions described above and elsewhere herein. We have entered into separate indemnification agreements with our directors and officers that may be broader than the specific indemnification provisions contained in the Delaware General Corporation Law. These indemnification agreements generally require us, among other things, to indemnify our officers and directors against liabilities that may arise by reason of their status or service as directors or officers, other than liabilities arising from willful misconduct. These indemnification agreements also generally require us to

advance any expenses incurred by the directors or officers as a result of any proceeding against them as to which they could be indemnified. In addition, we have purchased a policy of directors' and officers' liability insurance that insures our directors and officers against the cost of defense, settlement or payment of a judgment in some circumstances. These indemnification provisions and the indemnification agreements may be sufficiently broad to permit indemnification of our officers and directors for liabilities, including reimbursement of expenses incurred, arising under the Securities Act of 1933, as amended, or the Securities Act.

We have entered into indemnification agreement with our directors and executive officers, in addition to the indemnification provided for in our amended and restated certificate of incorporation and amended and restated bylaws, and intend to enter into indemnification agreements with any new directors and executive officers in the future.

We have purchased and currently intend to maintain insurance on behalf of each and every person who is or was a director or officer of our company against any loss arising from any claim asserted against him or her and incurred by him or her in any such capacity, subject to certain exclusions.

The form of Underwriting Agreement, attached as Exhibit 1.1 hereto, provides for indemnification by the underwriters of us and our officers who sign this Registration Statement and directors for specified liabilities, including matters arising under the Securities Act.

Item 15. Recent Sales of Unregistered Securities.

The following list sets forth information as to all securities we have sold since the preceding three years up to the date of this document, which were not registered under the Securities Act.

- (a) In 2013, we issued a total of 1,700 shares of our Series B redeemable preferred stock to one institutional investor and two individual investors for a purchase price of \$1,000 per share, or \$1,700,000 in the aggregate. Each share of Series B redeemable preferred stock converted into shares of our common stock and Series A preferred stock in October 2015 in connection with our reincorporation in Delaware.
- (b) From March 2013 to May 2013, we issued a total of 605 shares of our Series A redeemable preferred stock to five individual investors for a purchase price of \$1,000 per share, or \$605,000 in the aggregate. Each share of Series A redeemable preferred stock converted into shares of our common stock and Series A preferred stock in October 2015 in connection with our reincorporation in Delaware.
- (c) Between July 2013 and November 2013, we issued 550,000 shares of common stock to two individuals for services provided in connection with sales of redeemable preferred stock. All of these shares of common stock converted into shares of our common stock in October 2015 in connection with our reincorporation in Delaware.
- (d) In March 2014 we sold an aggregate of 4,000,000 shares of our common stock to an institutional investor at a purchase price of \$1.75 per share, or \$7,000,000. In June 2014, we sold an additional 2,000,000 shares of our common stock to this investor at a purchase price of \$2.00 per share, or \$4,000,000. All of these shares of common stock converted into shares of our common stock in October 2015 in connection with our reincorporation in Delaware.
- (e) From June 2014 through November 13, 2015, we issued 2,454,480 performance stock units, or PSUs, in exchange for shares of restricted stock and stock options granted prior to June 2014, and 196,200 additional PSUs during the years ended September 30, 2014 and 2015, all of which were granted under our 2011 Equity Incentive Plan. Of the shares of restricted stock included in the exchange, 333,500 shares of restricted stock were granted subsequent to November 2012.
- (f) In June, July and September 2015, we sold an aggregate of 6,091,035 shares of our common stock to nine institutional investors for a purchase price of \$7.475 per share or approximately \$45.5 million in the aggregate. Citigroup Global Markets, Inc. and Jefferies LLC, each a registered broker-dealer and member of Financial Industry Regulation Authority, Inc., served as placement agents in this offering. The placement agents earned an aggregate of \$1.4 million in commissions with respect to this offering.
- (g) In October 2015, in connection with our reincorporation in Delaware, we issued 7,568,000 shares of our common stock and 10,193 shares of our Series A preferred stock in exchange for all then outstanding shares of common stock. Series A redeemable preferred stock and Series B redeemable preferred stock.
- (h) In October 2015, we issued 782,000 shares of our common stock and 1,626 shares of our Series A preferred stock in exchange for all outstanding Series A and Series A Hybrid Units of our former subsidiary Parilis Biopharmaceuticals LLC.
- (i) In December 2015, we issued 3,678,425 restricted stock unit awards under our 2015 Equity Incentive Plan.

(j) In December 2015 and January 2016, we sold an aggregate of 1,978,224 shares of our common stock to 19 accredited investors for a purchase price of \$8.42 per share or approximately \$16.6 million in the aggregate. Jefferies LLC, Arclight Advisors LLC and Alere Financial Partners (a division of Cova Capital Partners, LLC), each a registered broker-dealer and member of Financial Industry Regulation Authority, Inc., served as placement agents in this offering. The placement agents earned an aggregate of approximately \$62,500 in commissions with respect to this offering.

We claimed exemption from registration under the Securities Act for the sale and issuance of securities in the transactions described in paragraphs (a)-(d), (f)-(h) and (j) by virtue of Section 3(a)(9), 4(a)(2) and/or Regulation D promulgated thereunder as transactions not involving any public offering. All of the purchasers of unregistered securities for which we relied on Section 4(a)(2) and/or Regulation D represented that they were accredited investors as defined under the Securities Act. We claimed such exemption on the basis that (a) the purchasers in each case represented that they intended to acquire the securities for investment only and not with a view to the distribution thereof and that they either received adequate information about the registrant or had access, through employment or other relationships, to such information and (b) appropriate legends were affixed to the stock certificates issued in such transactions.

We claimed exemption from registration under the Securities Act for the sales and issuances of securities in the transactions described in paragraphs (e) and (i) above under Section 4(a)(2) of the Securities Act in that such sales and issuances did not involve a public offering or under Rule 701 promulgated under the Securities Act, in that they were offered and sold either pursuant to written compensatory plans or pursuant to a written contract relating to compensation, as provided by Rule 701.

Item 16. Exhibits and Financial Statement Schedules.

- (a) Exhibits. See the Exhibit Index attached to this Registration Statement, which is incorporated by reference herein.
- (b) Financial Statement Schedules. Schedules not listed above have been omitted because the information required to be set forth therein is not applicable or is shown in the financial statements or notes thereto.

Item 17. Undertakings.

The undersigned Registrant hereby undertakes to provide to the underwriters at the closing specified in the underwriting agreement certificates in such denominations and registered in such names as required by the underwriters to permit prompt delivery to each purchaser.

Insofar as indemnification for liabilities arising under the Securities Act may be permitted to directors, officers and controlling persons of the Registrant pursuant to the foregoing provisions, or otherwise, the Registrant has been advised that in the opinion of the SEC such indemnification is against public policy as expressed in the Securities Act, and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by the Registrant of expenses incurred or paid by a director, officer or controlling person of the Registrant in the successful defense of any action, suit or proceeding) is asserted by such director, officer or controlling person in connection with the securities being registered, the Registrant will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question of whether such indemnification by it is against public policy as expressed in the Securities Act and will be governed by the final adjudication of such issue.

The undersigned Registrant hereby undertakes that:

- (1) For purposes of determining any liability under the Securities Act, the information omitted from the form of prospectus filed as part of this Registration Statement in reliance upon Rule 430A and contained in a form of prospectus filed by the Registrant pursuant to Rule 424(b)(1) or (4) or 497(h) under the Securities Act shall be deemed to be part of this Registration Statement as of the time it was declared effective.
- (2) For the purpose of determining any liability under the Securities Act, each post-effective amendment that contains a form of prospectus shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, the Registrant has duly caused this Amendment No. 1 to the Registrant has duly caused this Amendment No. 1 to the Registrant has duly caused the RegistrantRegistration Statement on Form S-1 to be signed on its behalf by the undersigned, thereunto duly authorized, in Cranbury, New Jersey, on February 12, 2016.

ONCOBIOLOGICS, INC.

/s/ Pankaj Mohan

Pankaj Mohan, Ph.D. Chairman, President and Chief Executive Officer

Pursuant to the requirements of the Securities Act of 1933, this Amendment No. 1 to the Registration Statement has been signed by the following persons in the capacities and on the dates indicated.

Signature	Title	Date
/s/ Pankaj Mohan Pankaj Mohan, Ph.D.	Chairman, President and Chief Executive Officer (Principal Executive Officer)	February 12, 2016
/s/ Lawrence A. Kenyon Lawrence A. Kenyon	Chief Financial Officer (Principal Accounting and Financial Officer)	February 12, 2016
* Todd C. Brady, M.D., Ph.D.	Director	February 12, 2016
* Scott Canute	Director	February 12, 2016
* Albert D. Dyrness	Director	February 12, 2016
* Donald J. Griffith	Director	February 12, 2016
* Kurt J. Hilzinger	Director	February 12, 2016
* Robin Smith Hoke	Director	February 12, 2016
*By: /s/ Pankaj Mohan Pankaj Mohan, Ph.D. Attorney-in-fact		

EXHIBIT INDEX

Exhibit Number	Description	
1.1+	Form of Underwriting Agreement.	
3.1*	Certificate of Incorporation of Oncobiologics, Inc., as presently in effect.	
3.2+	Certificate of Amendment of Certificate of Incorporation, dated	
3.3*	Bylaws of Oncobiologics, Inc., as presently in effect.	
3.4	Form of Amended and Restated Certificate of Incorporation of Oncobiologics, Inc., to be in effect upon the closing of this offering.	
3.5	Form of Amended and Restated Bylaws of Oncobiologics, Inc., to be in effect upon the closing of this offering	
5.1+	Opinion of Cooley LLP.	
L0.1*	Investors' Rights Agreement by and among Oncobiologics, Inc. and certain of its stockholders, dated March 10, 2014, as amended.	
10.2*	2011 Stock Incentive Plan.	
.0.3*	2015 Equity Incentive Plan.	
10.4*	Forms of agreements and award grant notices for 2015 Equity Incentive Plan.	
10.5	2016 Employee Stock Purchase Plan.	
L0.6*	Employment Agreement between Oncobiologics, Inc. and Pankaj Mohan, Ph.D., dated January 1, 2011.	
L0.7*	Offer Letter between Oncobiologics, Inc. and Lawrence A. Kenyon, dated September 3, 2015.	
10.8*	Offer Letter between Oncobiologics, Inc. and Elizabeth A. Yamashita, dated March 27, 2014.	
.0.9*	Offer Letter between Oncobiologics, Inc. and Kenneth Bahrt, M.D., dated June 14, 2015.	
.0.10*	Letter between Oncobiologics, Inc. and Todd Brady, dated September 12, 2014.	
.0.11*	Letter between Oncobiologics, Inc. and Scott Canute, dated October 10, 2011.	
L0.12*	Form of Indemnity Agreement, by and between Oncobiologics, Inc. and each of its directors and executive officers.	
L0.13†*	Research License Agreement by and between Oncobiologics, Inc. and Selexis SA, effective as of October 3, 2011, as amended by Amendment No. 1 dated as of October 9, 2014.	
10.14†*	ONS-3010 Commercial License Agreement by and between Oncobiologics, Inc. and Selexis SA effective as of April 11, 2013, as amended effective as of May 21, 2014.	
L0.15†*	ONS-1045 Commercial License Agreement by and between Oncobiologics, Inc. and Selexis SA effective as of April 11, 2013, as amended effective as of May 21, 2014.	
10.16†*	ONS-1050 Commercial License Agreement by and between Oncobiologics, Inc. and Selexis SA effective as of April 11, 2013, as amended effective as of May 21, 2014.	
10.17*	Joint Participation Agreement by and between Oncobiologics, Inc. and Zhejiang Huahai Pharmaceutical Co., Ltd., effective as of May 6, 2013, as amended by that Amendment No. 1 and Mutual Termination Agreement re: Joint Participation Agreement, dated December 23, 2014.	
10.18*	Lease Agreement by and between Oncobiologics, Inc. and Cedar Brook 7 Corporate Center, LP, dated as of March 18, 2011.	
10.19*	First Amendment to Lease Agreement by and between Oncobiologics, Inc. and Cedar Brook 7 Corporate Center, LP, dated as of December 2013.	
10.20*	Second Amendment to Lease Agreement by and between Oncobiologics, Inc. and Cedar Brook 7 Corporate Center, LP, dated as of July 18, 2014.	
10.21*	Third Amendment to Lease Agreement by and between Oncobiologics, Inc. and Cedar Brook 7 Corporate Center, LP, dated as of January 16, 2015.	
10.22*	Fourth Amendment to Lease Agreement by and between Oncobiologics, Inc. and Cedar Brook 7 Corporate Center, LP, dated as of February 9, 2015.	
10.23*	Fifth Amendment to Lease Agreement by and between Oncobiologics, Inc. and Cedar Brook 7 Corporate Center, LP, dated as of September 26, 2015.	
10.24*	Lease Agreement by and between Cedar Brook East Corporate Center, LP and Oncobiologics, Inc., dated as of August 31, 2015.	

Exhibit Number	Description
23.1	Consent of independent registered public accounting firm.
23.2+	Consent of Cooley LLP (included in Exhibit 5.1).
24.1*	Power of Attorney (included on signature page to the original filing of the registration statement).

[†] Portions of this exhibit (indicated by asterisks) have been omitted pursuant to a request for confidential treatment and this exhibit has been filed separately with the SEC.

⁺ To be filed by amendment.

Previously filed.

Amended and Restated Certificate of Incorporation of

ONCOBIOLOGICS, INC.

Pankaj Mohan, Ph.D. hereby certifies that:

ONE: The name of the company is Oncobiologics, Inc. The date on which the Certificate of Incorporation of the Company was originally filed with the Secretary of State of the State of Delaware is October 22, 2015.

TWO: He is the duly elected and acting President and Chief Executive Officer of Oncobiologics, Inc., a Delaware corporation.

THREE: The Certificate of Incorporation of this Company is hereby amended and restated to read as follows:

T.

The name of this corporation is Oncobiologics, Inc., (the "Company").

II.

The address of the registered office of this Company in the State of Delaware is United Corporate Services, 874 Walker Road, Suite C, City of Dover, County of Kent, Zip Code 19904, and the name of the registered agent of this Company in the State of Delaware at such address is United Corporate Services, Inc.

Ш

The purpose of the Company is to engage in any lawful act or activity for which a corporation may be organized under the Delaware General Corporation Law ("DGCL").

IV

- A. The Company is authorized to issue two classes of stock to be designated, respectively, "Common Stock" and "Preferred Stock." The total number of shares which the Company is authorized to issue is two hundred ten million (210,000,000) shares. Two hundred million (200,000,000) shares shall be Common Stock, each having a par value of one cent (\$0.01). Ten million (10,000,000) shares shall be Preferred Stock, each having a par value of one cent (\$0.01).
- **B.** The Preferred Stock may be issued from time to time in one or more series. The Board of Directors of the Company is hereby expressly authorized to provide for the issue of all or any number of the shares of the Preferred Stock in one or more series, and to fix the number of shares and to determine or alter for each such series, such voting powers, full or limited, or no voting powers, and such designation, preferences, and relative, participating, optional, or other

rights and such qualifications, limitations, or restrictions thereof, as shall be stated and expressed in the resolution or resolutions adopted by the Board of Directors providing for the issuance of such shares and as may be permitted by the DGCL. The Board of Directors is also expressly authorized to increase or decrease the number of shares of any series subsequent to the issuance of shares of that series, but not below the number of shares of such series then outstanding. In case the number of shares of any series shall be decreased in accordance with the foregoing sentence, the shares constituting such decrease shall resume the status that they had prior to the adoption of the resolution originally fixing the number of shares of such series. The number of authorized shares of Preferred Stock may be increased or decreased (but not below the number of shares thereof then outstanding) by the affirmative vote of the holders of a majority of the voting power of the stock of the Company entitled to vote thereon, without a separate vote of the holders of the Preferred Stock, or of any series thereof, unless a vote of any such holders is required pursuant to the terms of any certificate of designation filed with respect to any series of Preferred Stock.

V.

For the management of the business and for the conduct of the affairs of the Company, and in further definition, limitation and regulation of the powers of the Company, of its directors and of its stockholders or any class thereof, as the case may be, it is further provided that:

A.

1. The management of the business and the conduct of the affairs of the Company shall be vested in the Board of Directors. The number of directors which shall constitute the Board of Directors shall be fixed exclusively by resolutions adopted by a majority of the authorized number of directors constituting the Board of Directors.

2. Board of Directors

- a. Subject to the rights of the holders of any series of Preferred Stock to elect additional directors under specified circumstances, the directors shall be divided into three classes designated as Class I, Class II and Class III, respectively. The Board of Directors is authorized to assign members of the Board of Directors already in office to such classes at the time the classification becomes effective. At the first annual meeting of stockholders following the initial classification of the Board of Directors, the term of office of the Class I directors shall be elected for a full term of three years. At the second annual meeting of stockholders following such initial classification, the term of office of the Class III directors shall expire and Class III directors shall be elected for a full term of three years. At each succeeding annual meeting of stockholders, directors shall be elected for a full term of three years. At each succeeding annual meeting of stockholders, directors shall be elected for a full term of three years to succeed the directors of the class whose terms expire at such annual meeting.
 - b. Notwithstanding the foregoing provisions of this section, each director shall serve until his successor is duly elected and qualified or until his earlier death,

resignation or removal. No decrease in the number of directors constituting the Board of Directors shall shorten the term of any incumbent director.

3. Removal of Directors.

- **a.** Subject to the rights of any series of Preferred Stock to elect additional directors under specified circumstances, neither the Board of Directors nor any individual director may be removed without cause.
- **b.** Subject to any limitations imposed by applicable law, any individual director or directors may be removed with cause by the affirmative vote of the holders of a majority of the voting power of all then-outstanding shares of capital stock of the Company entitled to vote generally at an election of directors.
- **4. V**ACANCIES. Subject to any limitations imposed by applicable law and subject to the rights of the holders of any series of Preferred Stock, any vacancies on the Board of Directors resulting from death, resignation, disqualification, removal or other causes and any newly created directorships resulting from any increase in the number of directors, shall, unless the Board of Directors determines by resolution that any such vacancies or newly created directorships shall be filled by the stockholders and except as otherwise provided by applicable law, be filled only by the affirmative vote of a majority of the directors then in office, even though less than a quorum of the Board of Directors, and not by the stockholders. Any director elected in accordance with the preceding sentence shall hold office for the remainder of the full term of the director for which the vacancy was created or occurred and until such director's successor shall have been elected and qualified.

B.

- **1. B**YLAW **A**MENDMENTS. The Board of Directors is expressly empowered to adopt, amend or repeal the Bylaws of the Company. The stockholders shall also have power to adopt, amend or repeal the Bylaws of the Company required by law or by this Certificate of Incorporation, such action by stockholders shall require the affirmative vote of the holders of at least sixty-six and two-thirds percent (66 2/3%) of the voting power of all of the then-outstanding shares of the capital stock of the Company entitled to vote generally in the election of directors, voting together as a single class.
 - The directors of the Company need not be elected by written ballot unless the Bylaws so provide.
- **3.** No action shall be taken by the stockholders of the Company except at an annual or special meeting of stockholders called in accordance with the Bylaws, and no action shall be taken by the stockholders by written consent or electronic transmission.
- **4.** Advance notice of stockholder nominations for the election of directors and of business to be brought by stockholders before any meeting of the stockholders of the Company shall be given in the manner provided in the Bylaws of the Company.

- A. The liability of the directors for monetary damages shall be eliminated to the fullest extent permitted by applicable law.
- **B.** To the fullest extent permitted by applicable law, the Company is authorized to provide indemnification of (and advancement of expenses to) directors, officers and agents of the Company (and any other persons to which applicable law permits the Company to provide indemnification) through Bylaw provisions, agreements with such agents or other persons, vote of stockholders or disinterested directors or otherwise in excess of the indemnification and advancement otherwise permitted by such applicable law. If applicable law is amended after approval by the stockholders of this Article VI to authorize corporate action further eliminating or limiting the personal liability of directors, then the liability of a director to the Company shall be eliminated or limited to the fullest extent permitted by applicable law as so amended.
- **C.** Any repeal or modification of this Article VI shall only be prospective and shall not affect the rights or protections or increase the liability of any director under this Article VI in effect at the time of the alleged occurrence of any act or omission to act giving rise to liability or indemnification.

VII.

Unless the Company consents in writing to the selection of an alternative forum, the Court of Chancery of the State of Delaware shall be the sole and exclusive forum for (A) any derivative action or proceeding brought on behalf of the Company; (B) any action asserting a claim of breach of a fiduciary duty owed by any director, officer or other employee of the Company to the Company or the Company's stockholders; (C) any action asserting a claim against the Company arising pursuant to any provision of the DGCL, this Amended and Restated Certificate of Incorporation or the Bylaws of the Company; or (D) any action asserting a claim against the Company governed by the internal affairs doctrine. Any person or entity purchasing or otherwise acquiring any interest in shares of capital stock of the Company shall be deemed to have notice of and to have consented to the provisions of this Article VII.

VIII.

- **A.** The Company reserves the right to amend, alter, change or repeal any provision contained in this Amended and Restated Certificate of Incorporation, in the manner now or hereafter prescribed by statute, except as provided in paragraph B. of this Article VIII, and all rights conferred upon the stockholders herein are granted subject to this reservation.
- **B.** Notwithstanding any other provisions of this Amended and Restated Certificate of Incorporation or any provision of law which might otherwise permit a lesser vote or no vote, but in addition to any affirmative vote of the holders of any particular class or series of capital stock of the Company required by law or by this Amended and Restated Certificate of Incorporation or any certificate of designation filed with respect to a series of Preferred Stock, the affirmative vote of the holders of at least sixty-six and two-thirds percent (66 2/3%) of the voting power of all of the then-outstanding shares of capital stock of the Company entitled to vote generally in

the election of directors, voting together as a single class, shall be required to alter, amend or repeal Articles V, VI, VII or VIII.

FOUR: This Amended and Restated Certificate of Incorporation has been duly approved by the Board of Directors of the Company.

FIVE: This Amended and Restated Certificate of Incorporation was approved by the requisite number of shares of the Company in accordance with Section 228 of the DGCL. This Amended and Restated Certificate of Incorporation has been duly adopted in accordance with the provisions of Sections 242 and 245 of the DGCL by the stockholders of the Company.

[Signature Page Follows]

IN WITNESS WHEREOF, Oncobiologics, Inc. has caused this Amended and of, 2016.	d Restated Certificate of Incorporation to be signed by its President and Chief Executive Officer this day
	Pankaj Mohan, Ph.D. President and Chief Executive Officer
	6.

AMENDED AND RESTATED BYLAWS

OF

ONCOBIOLOGICS, INC. (A DELAWARE CORPORATION)

AMENDED AND RESTATED BYLAWS

OF

ONCOBIOLOGICS, INC. (A DELAWARE CORPORATION)

ARTICLE I

OFFICES

- Section 1. Registered Office. The registered office of the corporation in the State of Delaware shall be in the City of Dover, County of Kent.
- **Section 2. Other Offices.** The corporation shall also have and maintain an office or principal place of business at such place as may be fixed by the Board of Directors, and may also have offices at such other places, both within and without the State of Delaware, as the Board of Directors may from time to time determine or the business of the corporation may require.

ARTICLE II

CORPORATE SEAL

Section 3. Corporate Seal. The Board of Directors may adopt a corporate seal. If adopted, the corporate seal shall consist of a die bearing the name of the corporation and the inscription, "Corporate Seal-Delaware." Said seal may be used by causing it or a facsimile thereof to be impressed or affixed or reproduced or otherwise.

ARTICLE III

STOCKHOLDERS' MEETINGS

Section 4. Place of Meetings. Meetings of the stockholders of the corporation may be held at such place, either within or without the State of Delaware, as may be determined from time to time by the Board of Directors. The Board of Directors may, in its sole discretion, determine that the meeting shall not be held at any place, but may instead be held solely by means of remote communication as provided under the Delaware General Corporation Law ("*DGCL*").

Section 5. Annual Meeting.

(a) The annual meeting of the stockholders of the corporation, for the purpose of election of directors and for such other business as may properly come before it, shall be held on such date and at such time as may be designated from time to time by the Board of Directors. Nominations of persons for election to the Board of Directors of the corporation and the proposal of business to be considered by the stockholders may be made at an annual meeting of stockholders: (i) pursuant to the corporation's notice of meeting of stockholders (with respect to business other than nominations); (ii) brought specifically by or at the direction of the Board of Directors; or (iii) by any stockholder of the corporation who was a stockholder of record at the time of giving the stockholder's notice provided for in Section 5(b) below, who is entitled to vote at the meeting and who complied with the notice procedures set forth in Section 5. For the avoidance of doubt, clause (iii) above shall be the exclusive means for a

stockholder to make nominations and submit other business (other than matters properly included in the corporation's notice of meeting of stockholders and proxy statement under Rule 14a-8 under the Securities Exchange Act of 1934, as amended, and the rules and regulations thereunder (the "1934 Act")) before an annual meeting of stockholders.

- **(b)** At an annual meeting of the stockholders, only such business shall be conducted as is a proper matter for stockholder action under Delaware law and as shall have been properly brought before the meeting.
- (1) For nominations for the election to the Board of Directors to be properly brought before an annual meeting by a stockholder pursuant to clause (iii) of Section 5(a), the stockholder must deliver written notice to the Secretary at the principal executive offices of the corporation on a timely basis as set forth in Section 5(b)(3) and must update and supplement such written notice on a timely basis as set forth in Section 5(c). Such stockholder's notice shall set forth: (A) as to each nominee such stockholder proposes to nominate at the meeting: (1) the name, age, business address and residence address of such nominee, (2) the principal occupation or employment of such nominee, (3) the class and number of shares of each class of capital stock of the corporation which are owned of record and beneficially by such nominee, (4) the date or dates on which shares were acquired and the investment intent of such acquisition and (5) such other information concerning such nominee as would be required to be disclosed in a proxy statement soliciting proxies for the election of such nominee as a director in an election contest (even if an election contest is not involved), or that is otherwise required to be disclosed pursuant to Section 14 of the 1934 Act and the rules and regulations promulgated thereunder (including such person's written consent to being named as a nominee and to serving as a director if elected); and (B) the information required by Section 5(b)(4). The corporation may require any proposed nominee to furnish such other information as it may reasonably require to determine the eligibility of such proposed nominee to serve as an independent director of the corporation or that could be material to a reasonable stockholder's understanding of the independence, or lack thereof, of such proposed nominee.
- Other than proposals sought to be included in the corporation's proxy materials pursuant to Rule 14(a)-8 under the 1934 Act, for business other than nominations for the election to the Board of Directors to be properly brought before an annual meeting by a stockholder pursuant to clause (iii) of Section 5(a), the stockholder must deliver written notice to the Secretary at the principal executive offices of the corporation on a timely basis as set forth in Section 5(b)(3), and must update and supplement such written notice on a timely basis as set forth in Section 5(c). Such stockholder's notice shall set forth: (A) as to each matter such stockholder proposes to bring before the meeting, a brief description of the business desired to be brought before the meeting, the reasons for conducting such business at the meeting, and any material interest (including any anticipated benefit of such business to any Proponent (as defined below) other than solely as a result of its ownership of the corporation's capital stock, that is material to any Proponent individually, or to the Proponents in the aggregate) in such business of any Proponent; and (B) the information required by Section 5(b)(4).
- To be timely, the written notice required by Section 5(b)(1) or 5(b)(2) must be received by the Secretary at the principal executive offices of the corporation not later than the close of business on the ninetieth (90^{th}) day nor earlier than the close of business on the one hundred twentieth (120^{th}) day prior to the first anniversary of the preceding year's annual meeting; provided, however, that, subject to the last sentence of this Section 5(b)(3), in the event that the date of the annual meeting is advanced more than thirty (30) days after the anniversary of the preceding year's annual meeting, notice by the stockholder to be timely must be so received not earlier than the close of business on the one hundred twentieth (120^{th}) day prior to such annual meeting or the tenth (10^{th}) day following the day on which public announcement of the date of

such meeting is first made. In no event shall an adjournment or a postponement of an annual meeting for which notice has been given, or the public announcement thereof has been made, commence a new time period for the giving of a stockholder's notice as described above.

- (4) The written notice required by Section 5(b)(1) or 5(b)(2) shall also set forth, as of the date of the notice and as to the stockholder giving the notice and the beneficial owner, if any, on whose behalf the nomination or proposal is made (each, a "Proponent" and collectively, the "Proponents"): (A) the name and address of each Proponent, as they appear on the corporation's books; (B) the class, series and number of shares of the corporation that are owned beneficially and of record by each Proponent; (C) a description of any agreement, arrangement or understanding (whether oral or in writing) with respect to such nomination or proposal between or among any Proponent and any of its affiliates or associates, and any others (including their names) acting in concert, or otherwise under the agreement, arrangement or understanding, with any of the foregoing; (D) a representation that the Proponents are holders of record or beneficial owners, as the case may be, of shares of the corporation entitled to vote at the meeting and intend to appear in person or by proxy at the meeting to nominate the person or persons specified in the notice (with respect to a notice under Section 5(b)(2)); (E) a representation as to whether the Proponents intend to deliver a proxy statement and form of proxy to holders of a sufficient number of holders of the corporation's voting shares to each nominee or nominees (with respect to a notice under Section 5(b)(1)) or to carry such proposal (with respect to a notice under Section 5(b)(2)); (F) to the extent known by any Proponent, the name and address of any other stockholder supporting the proposal on the date of such stockholder's notice; and (G) a description of all Derivative Transactions (as defined below) by each Proponent during the previous twelve (12) month period, including the date of the transactions and the class, series and number of securities involved in, and the material economic terms of, such Derivative Transactions.
- (c) A stockholder providing written notice required by Section 5(b)(1) or (ii) shall update and supplement such notice in writing, if necessary, so that the information provided or required to be provided in such notice is true and correct in all material respects as of (i) the record date for the meeting and (ii) the date that is five (5) business days prior to the meeting and, in the event of any adjournment or postponement thereof, five (5) business days prior to such adjourned or postponed meeting. In the case of an update and supplement pursuant to clause (i) of this Section 5(c), such update and supplement shall be received by the Secretary at the principal executive offices of the corporation not later than five (5) business days after the record date for the meeting. In the case of an update and supplement pursuant to clause (ii) of this Section 5(c), such update and supplement shall be received by the Secretary at the principal executive offices of the corporation not later than two (2) business days prior to the date for the meeting, and, in the event of any adjournment or postponement thereof, two (2) business days prior to such adjourned or postponed meeting.
- (d) Notwithstanding anything in Section 5(b)(3) to the contrary, in the event that the number of directors in an Expiring Class is increased and there is no public announcement of the appointment of a director to such class, or, if no appointment was made, of the vacancy in such class, made by the corporation at least ten (10) days before the last day a stockholder may deliver a notice of nomination in accordance with Section 5(b)(3), a stockholder's notice required by this Section 5 and which complies with the requirements in Section 5(b) (1), other than the timing requirements in Section 5(b)(3), shall also be considered timely, but only with respect to nominees for any new positions in such Expiring Class created by such increase, if it shall be received by the Secretary at the principal executive offices of the corporation not later than the close of business on the tenth (10th) day following the day on which such public announcement is first made by the corporation. For purposes of this section, an "Expiring Class" shall mean a class of directors whose term shall expire at the next annual meeting of stockholders.

- (e) A person shall not be eligible for election or re-election as a director unless the person is nominated either in accordance with clause (ii) of Section 5(a), or in accordance with clause (iii) of Section 5(a). Except as otherwise required by law, the chairperson of the meeting shall have the power and duty to determine whether a nomination or any business proposed to be brought before the meeting was made, or proposed, as the case may be, in accordance with the procedures set forth in these Bylaws and, if any proposed nomination or business is not in compliance with these Bylaws, or the Proponent does not act in accordance with the representations in Sections 5(b)(4)(D) and 5(b)(4)(E), to declare that such proposal or nomination shall not be presented for stockholder action at the meeting and shall be disregarded, notwithstanding that proxies in respect of such nominations or such business may have been solicited or received.
- (f) Notwithstanding the foregoing provisions of this Section 5, in order to include information with respect to a stockholder proposal in the proxy statement and form of proxy for a stockholders' meeting, a stockholder must also comply with all applicable requirements of the 1934 Act and the rules and regulations thereunder. Nothing in these Bylaws shall be deemed to affect any rights of stockholders to request inclusion of proposals in the corporation's proxy statement pursuant to Rule 14a-8 under the 1934 Act; provided, however, that any references in these Bylaws to the 1934 Act or the rules and regulations thereunder are not intended to and shall not limit the requirements applicable to proposals and/or nominations to be considered pursuant to Section 5(a)(iii).
 - (g) For purposes of Sections 5 and 6,
 - (1) "affiliates" and "associates" shall have the meanings set forth in Rule 405 under the Securities Act of 1933, as amended (the "1933 Act");
- "Derivative Transaction" means any agreement, arrangement, interest or understanding entered into by, or on behalf or for the benefit of, any Proponent or any of its affiliates or associates, whether record or beneficial: (A) the value of which is derived in whole or in part from the value of any class or series of shares or other securities of the corporation, (B) which otherwise provides any direct or indirect opportunity to gain or share in any gain derived from a change in the value of securities of the corporation, (C) the effect or intent of which is to mitigate loss, manage risk or benefit of security value or price changes, or (D) which provides the right to vote or increase or decrease the voting power of, such Proponent, or any of its affiliates or associates, with respect to any securities of the corporation, which agreement, arrangement, interest or understanding may include, without limitation, any option, warrant, debt position, note, bond, convertible security, swap, stock appreciation right, short position, profit interest, hedge, right to dividends, voting agreement, performance-related fee or arrangement to borrow or lend shares (whether or not subject to payment, settlement, exercise or conversion in any such class or series), and any proportionate interest of such Proponent in the securities of the corporation held by any general or limited partnership, or any limited liability company, of which such Proponent is, directly or indirectly, a general partner or managing member: and
- (3) "public announcement" shall mean disclosure in a press release reported by the Dow Jones News Service, Associated Press or comparable national news service or in a document publicly filed by the corporation with the Securities and Exchange Commission pursuant to Section 13, 14 or 15(d) of the 1934 Act.

Section 6. Special Meetings.

(a) Special meetings of the stockholders of the corporation may be called, for any purpose as is a proper matter for stockholder action under Delaware law, by (i) the Chairperson of the Board of Directors, (ii) the Cheif Executive Officer, or (iii) the Board of Directors pursuant to a resolution

adopted by a majority of the total number of authorized directors (whether or not there exist any vacancies in previously authorized directorships at the time any such resolution is presented to the Board of Directors for adoption).

- **(b)** The Board of Directors shall determine the time and place, if any, of such special meeting. Upon determination of the time and place, if any, of the meeting, the Secretary shall cause a notice of meeting to be given to the stockholders entitled to vote, in accordance with the provisions of Section 7. No business may be transacted at such special meeting otherwise than specified in the notice of meeting.
- (c) Nominations of persons for election to the Board of Directors may be made at a special meeting of stockholders at which directors are to be elected (i) by or at the direction of the Board of Directors or (ii) by any stockholder of the corporation who is a stockholder of record at the time of giving notice provided for in this paragraph, who shall be entitled to vote at the meeting and who delivers written notice to the Secretary of the corporation setting forth the information required by Section 5(b)(1). In the event the corporation calls a special meeting of stockholders for the purpose of electing one or more directors to the Board of Directors, any such stockholder of record may nominate a person or persons (as the case may be), for election to such position(s) as specified in the corporation's notice of meeting, if written notice setting forth the information required by Section 5(b)(1) of these Bylaws shall be received by the Secretary at the principal executive offices of the corporation not later than the close of business on the later of the ninetieth (90th) day prior to such meeting or the tenth (10th) day following the day on which public announcement is first made of the date of the special meeting and of the nominees proposed by the Board of Directors to be elected at such meeting. The stockholder shall also update and supplement such information as required under Section 5(c). In no event shall an adjournment or a postponement of a special meeting for which notice has been given, or the public announcement thereof has been made, commence a new time period for the giving of a stockholder's notice as described above.
- (d) Notwithstanding the foregoing provisions of this Section 6, a stockholder must also comply with all applicable requirements of the 1934 Act and the rules and regulations thereunder with respect to matters set forth in this Section 6. Nothing in these Bylaws shall be deemed to affect any rights of stockholders to request inclusion of proposals in the corporation's proxy statement pursuant to Rule 14a-8 under the 1934 Act; *provided*, *however*, that any references in these Bylaws to the 1934 Act or the rules and regulations thereunder are not intended to and shall not limit the requirements applicable to nominations for the election to the Board of Directors to be considered pursuant to Section 6(c) of these Bylaws.
- Section 7. Notice of Meetings. Except as otherwise provided by law, notice, given in writing or by electronic transmission, of each meeting of stockholders shall be given not less than ten (10) nor more than sixty (60) days before the date of the meeting to each stockholder entitled to vote at such meeting, such notice to specify the place, if any, date and hour, in the case of special meetings, the purpose or purposes of the meeting, and the means of remote communications, if any, by which stockholders and proxy holders may be deemed to be present in person and vote at any such meeting. If mailed, notice is given when deposited in the United States mail, postage prepaid, directed to the stockholder at such stockholder's address as it appears on the records of the corporation. Notice of the time, place, if any, and purpose of any meeting of stockholders may be waived in writing, signed by the person entitled to notice thereof or by electronic transmission by such person, either before or after such meeting, and will be waived by any stockholder by his or her attendance thereat in person, by remote communication, if applicable, or by proxy, except when the stockholder attends a meeting for the express purpose of objecting, at the beginning of the meeting, to the transaction of any business because the meeting is not lawfully called or convened. Any stockholder so waiving notice of such meeting shall be bound by the proceedings of any such meeting in all respects as if due notice thereof had been given.

- **Section 8. Quorum.** At all meetings of stockholders, except where otherwise provided by statute or by the Certificate of Incorporation, or by these Bylaws, the presence, in person, by remote communication, if applicable, or by proxy duly authorized, of the holders of a majority of the voting power of the outstanding shares of stock entitled to vote shall constitute a quorum for the transaction of business. In the absence of a quorum, any meeting of stockholders may be adjourned, from time to time, either by the chairperson of the meeting or by vote of the holders of a majority of voting power of the shares represented thereat, but no other business shall be transacted at such meeting. The stockholders present at a duly called or convened meeting, at which a quorum is present, may continue to transact business until adjournment, notwithstanding the withdrawal of enough stockholders to leave less than a quorum. Except as otherwise provided by statute or by applicable stock exchange rules, or by the Certificate of Incorporation or these Bylaws, in all matters other than the election of directors, the affirmative vote of the majority of the voting power of the shares present in person, by remote communication, if applicable, or represented by proxy duly authorized at the meeting and entitled to vote generally on the subject matter shall be the act of the stockholders. Except as otherwise provided by statute, the Certificate of Incorporation or these Bylaws, directors shall be elected by a plurality of the votes of the shares present in person, by remote communication, if applicable, or represented by proxy duly authorized, shall constitute a quorum entitled to take action with respect to that vote on that matter. Except where otherwise provided by statute, by applicable stock exchange rules or by the Certificate of Incorporation or these Bylaws, the affirmative vote of the majority (plurality, in the case of the election of directors) of shares of such class or classes or series present in person, by remote comm
- **Section 9.** Adjournment and Notice of Adjourned Meetings. Any meeting of stockholders, whether annual or special, may be adjourned from time to time either by the chairperson of the meeting or by the vote of the holders of a majority of the voting power of the shares present in person, by remote communication, if applicable, or represented by proxy at the meeting. When a meeting is adjourned to another time or place, if any, notice need not be given of the adjourned meeting if the time and place, if any, thereof are announced at the meeting at which the adjournment is taken. At the adjourned meeting, the corporation may transact any business that might have been transacted at the original meeting. If the adjournment is for more than thirty (30) days or if after the adjournment a new record date is fixed for the adjourned meeting, a notice of the adjourned meeting shall be given to each stockholder of record entitled to vote at the meeting.
- **Section 10. Voting Rights.** For the purpose of determining those stockholders entitled to vote at any meeting of the stockholders, except as otherwise provided by law, only persons in whose names shares stand on the stock records of the corporation on the record date, as provided in Section 12 of these Bylaws, shall be entitled to vote at any meeting of stockholders. Every person entitled to vote shall have the right to do so either in person, by remote communication, if applicable, or by an agent or agents authorized by a proxy granted in accordance with Delaware law. An agent so appointed need not be a stockholder. No proxy shall be voted after three (3) years from its date of creation unless the proxy provides for a longer period.
- Section 11. Joint Owners of Stock. If shares or other securities having voting power stand of record in the names of two (2) or more persons, whether fiduciaries, members of a partnership, joint tenants, tenants in common, tenants by the entirety, or otherwise, or if two (2) or more persons have the same fiduciary relationship respecting the same shares, unless the Secretary is given written notice to the

contrary and is furnished with a copy of the instrument or order appointing them or creating the relationship wherein it is so provided, their acts with respect to voting shall have the following effect: (a) if only one (1) votes, his or her act binds all; (b) if more than one (1) votes, the act of the majority so voting binds all; (c) if more than one (1) votes, but the vote is evenly split on any particular matter, each faction may vote the securities in question proportionally, or may apply to the Delaware Court of Chancery for relief as provided in the DGCL, Section 217(b). If the instrument filed with the Secretary shows that any such tenancy is held in unequal interests, a majority or even-split for the purpose of subsection (c) shall be a majority or even-split in interest.

- **Section 12. List of Stockholders.** The Secretary shall prepare and make, at least ten (10) days before every meeting of stockholders, a complete list of the stockholders entitled to vote at said meeting, arranged in alphabetical order, showing the address of each stockholder and the number of shares registered in the name of each stockholder. Such list shall be open to the examination of any stockholder, for any purpose germane to the meeting, (a) on a reasonably accessible electronic network, provided that the information required to gain access to such list is provided with the notice of the meeting, or (b) during ordinary business hours, at the principal place of business of the corporation. In the event that the corporation determines to make the list available on an electronic network, the corporation may take reasonable steps to ensure that such information is available only to stockholders of the corporation. The list shall be open to examination of any stockholder during the time of the meeting as provided by law.
- **Section 13. Action Without Meeting.** No action shall be taken by the stockholders except at an annual or special meeting of stockholders called in accordance with these Bylaws, and no action shall be taken by the stockholders by written consent or by electronic transmission.

Section 14. Organization.

- (a) At every meeting of stockholders, the Chairperson of the Board of Directors, or, if a Chairperson has not been appointed or is absent, the Chief Executive Officer, or, if the Chief Executive Officer is absent, the President, or, if the President is absent, a chairperson of the meeting chosen by a majority in interest of the stockholders entitled to vote, present in person or by proxy, shall act as chairperson. The Secretary, or, in his or her absence, an Assistant Secretary directed to do so by the Chief Executive Officer or the President, shall act as secretary of the meeting.
- (b) The Board of Directors of the corporation shall be entitled to make such rules or regulations for the conduct of meetings of stockholders as it shall deem necessary, appropriate or convenient. Subject to such rules and regulations of the Board of Directors, if any, the chairperson of the meeting shall have the right and authority to prescribe such rules, regulations and procedures and to do all such acts as, in the judgment of such chairperson, are necessary, appropriate or convenient for the proper conduct of the meeting, including, without limitation, establishing an agenda or order of business for the meeting, rules and procedures for maintaining order at the meeting and the safety of those present, limitations on participation in such meeting to stockholders of record of the corporation and their duly authorized and constituted proxies and such other persons as the chairperson shall permit, restrictions on entry to the meeting after the time fixed for the commencement thereof, limitations on the time allotted to questions or comments by participants and regulation of the opening and closing of the polls for balloting on matters which are to be voted on by ballot. The date and time of the opening and closing of the polls for each matter upon which the stockholders will vote at the meeting shall be announced at the meeting. Unless and to the extent determined by the Board of Directors or the chairperson of the meeting, meetings of stockholders shall not be required to be held in accordance with rules of parliamentary procedure.

ARTICLE IV

DIRECTORS

- **Section 15. Number and Term of Office.** The authorized number of directors of the corporation shall be fixed in accordance with the Certificate of Incorporation. Directors need not be stockholders unless so required by the Certificate of Incorporation. If for any cause, the directors shall not have been elected at an annual meeting, they may be elected as soon thereafter as convenient at a special meeting of the stockholders called for that purpose in the manner provided in these Bylaws.
- **Section 16. Powers.** The business and affairs of the corporation shall be managed by or under the direction of the Board of Directors, except as may be otherwise provided by statute or by the Certificate of Incorporation.
- Section 17. (a) Classes of Directors. Subject to the rights of the holders of any series of Preferred Stock to elect additional directors under specified circumstances, following the closing of the initial public offering pursuant to an effective registration statement under the 1933 Act, covering the offer and sale of Common Stock of the corporation to the public (the "Initial Public Offering"), the directors shall be divided into three classes designated as Class I, Class II and Class III, respectively. The Board of Directors is authorized to assign members of the Board of Directors already in office to such classes at the time the classification becomes effective. At the first annual meeting of stockholders following the closing of the Initial Public Offering, the term of office of the Class I directors shall expire and Class II directors shall be elected for a full term of three years. At the third annual meeting of stockholders following the Initial Public Offering, the term of office of the Class III directors shall expire and Class III directors shall be elected for a full term of three years. At each succeeding annual meeting of stockholders, directors shall be elected for a full term of three years. At each succeeding annual meeting of stockholders, directors shall be elected for a full term of three years. At each succeeding annual meeting of stockholders, directors shall be elected for a full term of three years to succeed the directors of the class whose terms expire at such annual meeting.

Notwithstanding the foregoing provisions of this Section 17, each director shall serve until his or her successor is duly elected and qualified or until his or her earlier death, resignation or removal. No decrease in the number of directors constituting the Board of Directors shall shorten the term of any incumbent director.

Section 18. Vacancies. Unless otherwise provided in the Certificate of Incorporation, and subject to the rights of the holders of any series of Preferred Stock or as otherwise provided by applicable law, any vacancies on the Board of Directors resulting from death, resignation, disqualification, removal or other causes and any newly created directorships resulting from any increase in the number of directors shall, unless the Board of Directors determines by resolution that any such vacancies or newly created directorships shall be filled by stockholders, be filled only by the affirmative vote of a majority of the directors then in office, even though less than a quorum of the Board of Directors, or by a sole remaining director, and not by the stockholders, *provided, however*, that whenever the holders of any classes or classes of stock or series thereof are entitled to elect one or more directors by the provisions of the Certificate of Incorporation, vacancies and newly created directorships of such class or classes or series shall, unless the Board of Directors determines by resolution that any such vacancies or newly created directorships shall be filled by stockholders, be filled by a majority of the directors elected by such class or classes or series thereof then in office, or by a sole remaining director so elected, and not by the stockholders. Any director elected in accordance with the preceding sentence shall hold office for the remainder of the full term of the director for which the vacancy was created or occurred and until such director's successor shall have

been elected and qualified. A vacancy in the Board of Directors shall be deemed to exist under this Bylaw in the case of the death, removal or resignation of any director.

Section 19. Resignation. Any director may resign at any time by delivering his or her notice in writing or by electronic transmission to the Secretary, such resignation to specify whether it will be effective at a particular time. If no such specification is made, the Secretary, in his or her discretion, may either (a) require confirmation from the director prior to deeming the resignation effective, in which case the resignation will be deemed effective upon receipt of such confirmation, or (b) deem the resignation effective at the time of delivery of the resignation to the Secretary. When one or more directors shall resign from the Board of Directors, effective at a future date, a majority of the directors then in office, including those who have so resigned, shall have power to fill such vacancy or vacancies, the vote thereon to take effect when such resignation or resignations shall become effective, and each director so chosen shall hold office for the unexpired portion of the term of the director whose place shall be vacated and until his successor shall have been duly elected and qualified.

Section 20. Removal.

- (a) Subject to the rights of holders of any series of Preferred Stock to elect additional directors under specified circumstances, neither the Board of Directors nor any individual director may be removed without cause.
- **(b)** Subject to any limitation imposed by applicable law, any individual director or directors may only be removed from office with cause by the affirmative vote of the holders of a majority of the voting power of all then outstanding shares of capital stock of the corporation entitled to vote generally at an election of directors, voting together as a single class.

Section 21. Meetings

- (a) Regular Meetings. Unless otherwise restricted by the Certificate of Incorporation, regular meetings of the Board of Directors may be held at any time or date and at any place within or without the State of Delaware which has been designated by the Board of Directors and publicized among all directors, either orally or in writing, by telephone, including a voice-messaging system or other system designed to record and communicate messages, facsimile, telegraph or telex, or by electronic mail or other electronic means. No further notice shall be required for regular meetings of the Board of Directors.
- **(b) Special Meetings.** Unless otherwise restricted by the Certificate of Incorporation, special meetings of the Board of Directors may be held at any time and place within or without the State of Delaware whenever called by the Chairperson of the Board, the Chief Executive Officer or a majority of the authorized number of directors.
- (c) Meetings by Electronic Communications Equipment. Any member of the Board of Directors, or of any committee thereof, may participate in a meeting by means of conference telephone or other communications equipment by means of which all persons participating in the meeting can hear each other, and participation in a meeting by such means shall constitute presence in person at such meeting.
- (d) Notice of Special Meetings. Notice of the time and place of all special meetings of the Board of Directors shall be orally or in writing, by telephone, including a voice messaging system or other system or technology designed to record and communicate messages, facsimile, telegraph or telex, or by electronic mail or other electronic means, during normal business hours, at least twenty-four

(24) hours before the date and time of the meeting. If notice is sent by US mail, it shall be sent by first class mail, postage prepaid at least three (3) days before the date of the meeting. Notice of any meeting may be waived in writing or by electronic transmission at any time before or after the meeting and will be waived by any director by attendance thereat, except when the director attends the meeting for the express purpose of objecting, at the beginning of the meeting, to the transaction of any business because the meeting is not lawfully called or convened.

(e) Waiver of Notice. The transaction of all business at any meeting of the Board of Directors, or any committee thereof, however called or noticed, or wherever held, shall be as valid as though it had been transacted at a meeting duly held after regular call and notice, if a quorum be present and if, either before or after the meeting, each of the directors not present who did not receive notice shall sign a written waiver of notice or shall waive notice by electronic transmission. All such waivers shall be filed with the corporate records or made a part of the minutes of the meeting.

Section 22. Quorum and Voting.

- (a) Unless the Certificate of Incorporation requires a greater number, and except with respect to questions related to indemnification arising under Section 45 for which a quorum shall be one-third of the exact number of directors fixed from time to time, a quorum of the Board of Directors shall consist of a majority of the exact number of directors fixed from time to time by the Board of Directors in accordance with the Certificate of Incorporation; *provided*, *however*, at any meeting whether a quorum be present or otherwise, a majority of the directors present may adjourn from time to time until the time fixed for the next regular meeting of the Board of Directors, without notice other than by announcement at the meeting.
- **(b)** At each meeting of the Board of Directors at which a quorum is present, all questions and business shall be determined by the affirmative vote of a majority of the directors present, unless a different vote be required by law, the Certificate of Incorporation or these Bylaws.
- **Section 23. Action Without Meeting.** Unless otherwise restricted by the Certificate of Incorporation or these Bylaws, any action required or permitted to be taken at any meeting of the Board of Directors or of any committee thereof may be taken without a meeting, if all members of the Board of Directors or committee, as the case may be, consent thereto in writing or by electronic transmission, and such writing or writings or transmission or transmissions are filed with the minutes of proceedings of the Board of Directors or committee. Such filing shall be in paper form if the minutes are maintained in paper form and shall be in electronic form if the minutes are maintained in electronic form.
- **Section 24. Fees and Compensation.** Directors shall be entitled to such compensation for their services as may be approved by the Board of Directors, including, if so approved, by resolution of the Board of Directors, a fixed sum and expenses of attendance, if any, for attendance at each regular or special meeting of the Board of Directors and at any meeting of a committee of the Board of Directors. Nothing herein contained shall be construed to preclude any director from serving the corporation in any other capacity as an officer, agent, employee, or otherwise and receiving compensation therefor.

Section 25. Committees.

(a) Executive Committee. The Board of Directors may appoint an Executive Committee to consist of one (1) or more members of the Board of Directors. The Executive Committee, to the extent permitted by law and provided in the resolution of the Board of Directors shall have and may exercise all the powers and authority of the Board of Directors in the management of the business and affairs of the corporation, and may authorize the seal of the corporation to be affixed to all papers which

may require it; but no such committee shall have the power or authority in reference to (i) approving or adopting, or recommending to the stockholders, any action or matter (other than the election or removal of directors) expressly required by the DGCL to be submitted to stockholders for approval, or (ii) adopting, amending or repealing any bylaw of the corporation.

- **(b) Other Committees.** The Board of Directors may, from time to time, appoint such other committees as may be permitted by law. Such other committees appointed by the Board of Directors shall consist of one (1) or more members of the Board of Directors and shall have such powers and perform such duties as may be prescribed by the resolution or resolutions creating such committees, but in no event shall any such committee have the powers denied to the Executive Committee in these Bylaws.
- (c) Term. The Board of Directors, subject to any requirements of any outstanding series of Preferred Stock and the provisions of subsections (a) or (b) of this Section 25 may at any time increase or decrease the number of members of a committee or terminate the existence of a committee. The membership of a committee member shall terminate on the date of his death or voluntary resignation from the committee or from the Board of Directors. The Board of Directors may at any time for any reason remove any individual committee member and the Board of Directors may fill any committee vacancy created by death, resignation, removal or increase in the number of members of the committee. The Board of Directors may designate one or more directors as alternate members of any committee, who may replace any absent or disqualified member at any meeting of the committee, and, in addition, in the absence or disqualification of any member of a committee, the member or members thereof present at any meeting and not disqualified from voting, whether or not he or they constitute a quorum, may unanimously appoint another member of the Board of Directors to act at the meeting in the place of any such absent or disqualified member.
- **(d) Meetings.** Unless the Board of Directors shall otherwise provide, regular meetings of the Executive Committee or any other committee appointed pursuant to this Section 25 shall be held at such times and places as are determined by the Board of Directors, or by any such committee, and when notice thereof has been given to each member of such committee, no further notice of such regular meetings need be given thereafter. Special meetings of any such committee may be held at any place which has been determined from time to time by such committee, and may be called by any director who is a member of such committee, upon notice to the members of such committee of the time and place of such special meeting given in the manner provided for the giving of notice to members of the Board of Directors of the time and place of special meetings of the Board of Directors. Notice of any special meeting of any committee may be waived in writing or by electronic transmission at any time before or after the meeting and will be waived by any director by attendance thereat, except when the director attends such special meeting for the express purpose of objecting, at the beginning of the meeting, to the transaction of any business because the meeting is not lawfully called or convened. Unless otherwise provided by the Board of Directors in the resolutions authorizing the creation of the committee, a majority of the authorized number of members of any such committee shall constitute a quorum for the transaction of business, and the act of a majority of those present at any meeting at which a quorum is present shall be the act of such committee.
- Section 26. Duties of Chairperson of the Board of Directors. The Chairperson of the Board of Directors, if appointed and when present, shall preside at all meetings of the stockholders and the Board of Directors. The Chairperson of the Board of Directors shall perform other duties commonly incident to the office and shall also perform such other duties and have such other powers, as the Board of Directors shall designate from time to time.

Section 27. Organization. At every meeting of the directors, the Chairperson of the Board of Directors, or, if a Chairperson has not been appointed or is absent, the Chief Executive Officer (if a director), or, if a Chief Executive Officer is absent, the President (if a director), or if the President is absent, the most senior Vice President (if a director), or, in the absence of any such person, a chairperson of the meeting chosen by a majority of the directors present, shall preside over the meeting. The Secretary, or in his absence, any Assistant Secretary or other officer, director or other person directed to do so by the person presiding over the meeting, shall act as secretary of the meeting.

ARTICLE V

OFFICERS

Section 28. Officers Designated. The officers of the corporation shall include, if and when designated by the Board of Directors, the Chairperson, the Chief Executive Officer, the President, one or more Vice Presidents, the Secretary, the Chief Financial Officer and the Treasurer. The Board of Directors may also appoint one or more Assistant Secretaries and Assistant Treasurers and such other officers and agents with such powers and duties as it shall deem necessary. The Board of Directors may assign such additional titles to one or more of the officers as it shall deem appropriate. Any one person may hold any number of offices of the corporation at any one time unless specifically prohibited therefrom by law. The salaries and other compensation of the officers of the corporation shall be fixed by or in the manner designated by the Board of Directors.

Section 29. Tenure and Duties of Officers.

- (a) General. All officers shall hold office at the pleasure of the Board of Directors and until their successors shall have been duly elected and qualified, unless sooner removed. Any officer elected or appointed by the Board of Directors may be removed at any time by the Board of Directors. If the office of any officer becomes vacant for any reason, the vacancy may be filled by the Board of Directors.
- **(b) Duties of Chief Executive Officer.** The Chief Executive Officer shall preside at all meetings of the stockholders and at all meetings of the Board of Directors (if a director), unless the Chairperson of the Board of Directors has been appointed and is present. Unless an officer has been appointed Chief Executive Officer of the corporation, the President shall be the chief executive officer of the corporation and shall, subject to the control of the Board of Directors, have general supervision, direction and control of the business and officers of the corporation. To the extent that a Chief Executive Officer has been appointed and no President has been appointed, all references in these Bylaws to the President shall be deemed references to the Chief Executive Officer. The Chief Executive Officer shall perform other duties commonly incident to the office and shall also perform such other duties and have such other powers, as the Board of Directors shall designate from time to time.
- **(c) Duties of President.** The President shall preside at all meetings of the stockholders and at all meetings of the Board of Directors (if a director), unless the Chairperson of the Board of Directors, or the Chief Executive Officer has been appointed and is present. Unless another officer has been appointed Chief Executive Officer of the corporation, the President shall be the chief executive officer of the corporation and shall, subject to the control of the Board of Directors, have general supervision, direction and control of the business and officers of the corporation. The President shall perform other duties commonly incident to the office and shall also perform such other duties and have such other powers, as the Board of Directors shall designate from time to time.

- **(d) Duties of Vice Presidents.** A Vice President may assume and perform the duties of the President in the absence or disability of the President or whenever the office of President is vacant. A Vice President shall perform other duties commonly incident to their office and shall also perform such other duties and have such other powers as the Board of Directors or the Chief Executive Officer, or, if the Chief Executive Officer has not been appointed or is absent, the President shall designate from time to time.
- **(e) Duties of Secretary.** The Secretary shall attend all meetings of the stockholders and of the Board of Directors and shall record all acts and proceedings thereof in the minute book of the corporation. The Secretary shall give notice in conformity with these Bylaws of all meetings of the stockholders and of all meetings of the Board of Directors and any committee thereof requiring notice. The Secretary shall perform all other duties provided for in these Bylaws and other duties commonly incident to the office and shall also perform such other duties and have such other powers, as the Board of Directors shall designate from time to time. The Chief Executive Officer, or if no Chief Executive Officer is then serving, the President may direct any Assistant Secretary or other officer to assume and perform the duties of the Secretary in the absence or disability of the Secretary, and each Assistant Secretary shall perform other duties commonly incident to the office and shall also perform such other duties and have such other powers as the Board of Directors or the Chief Executive Officer, or if no Chief Executive Officer is then serving, the President shall designate from time to time.
- **Object.** The Chief Financial Officer. The Chief Financial Officer shall keep or cause to be kept the books of account of the corporation in a thorough and proper manner and shall render statements of the financial affairs of the corporation in such form and as often as required by the Board of Directors or the Chief Executive Officer, or if no Chief Executive Officer is then serving, the President. The Chief Financial Officer, subject to the order of the Board of Directors, shall have the custody of all funds and securities of the corporation. The Chief Financial Officer shall perform other duties commonly incident to the office and shall also perform such other duties and have such other powers as the Board of Directors or the Chief Executive Officer is then serving, the President shall designate from time to time. To the extent that a Chief Financial Officer has been appointed, all references in these Bylaws to the Treasurer shall be deemed references to the Chief Financial Officer. The President may direct the Treasurer, if any, or any Assistant Treasurer, or the controller or any assistant controller to assume and perform the duties of the Chief Financial Officer in the absence or disability of the Chief Financial Officer, and each Treasurer and Assistant Treasurer and each controller shall perform other duties commonly incident to the office and shall also performs such other duties and have such other powers as the Board of Directors or the Chief Executive Officer, or if no Chief Executive Officer is then serving, the President shall designate from time to time.
- **QDuties of Treasurer.** Unless another officer has been appointed Chief Financial Officer of the corporation, the Treasurer shall be the chief financial officer of the corporation and shall keep or cause to be kept the books of account of the corporation in a thorough and proper manner and shall render statements of the financial affairs of the corporation in such form and as often as required by the Board of Directors or the Chief Executive Officer, or if no Chief Executive Officer is then serving, the President, and, subject to the order of the Board of Directors, shall have the custody of all funds and securities of the corporation. The Treasurer shall perform other duties commonly incident to the office and shall also perform such other duties and have such other powers as the Board of Directors or the Chief Executive Officer, or if no Chief Executive Officer is then serving, the President and Chief Financial Officer (if not Treasurer) shall designate from time to time.

- **Section 30. Delegation of Authority.** The Board of Directors may from time to time delegate the powers or duties of any officer to any other officer or agent, notwithstanding any provision hereof.
- **Section 31. Resignations.** Any officer may resign at any time by giving notice in writing or by electronic transmission to the Board of Directors or to the Chief Executive Officer, or if no Chief Executive Officer is then serving, the President or to the Secretary. Any such resignation shall be effective when received by the person or persons to whom such notice is given, unless a later time is specified therein, in which event the resignation shall become effective at such later time. Unless otherwise specified in such notice, the acceptance of any such resignation shall not be necessary to make it effective. Any resignation shall be without prejudice to the rights, if any, of the corporation under any contract with the resigning officer.
- **Section 32. Removal.** Any officer may be removed from office at any time, either with or without cause, by the affirmative vote of a majority of the directors in office at the time, or by the unanimous written consent of the directors in office at the time, or by any committee or by the Chief Executive Officer or by other superior officers upon whom such power of removal may have been conferred by the Board of Directors.

ARTICLE VI

EXECUTION OF CORPORATE INSTRUMENTS AND VOTING OF SECURITIES OWNED BY THE CORPORATION

- **Section 33. Execution of Corporate Instruments.** The Board of Directors may, in its discretion, determine the method and designate the signatory officer or officers, or other person or persons, to execute on behalf of the corporation any corporate instrument or document, or to sign on behalf of the corporation the corporate name without limitation, or to enter into contracts on behalf of the corporation, except where otherwise provided by law or these Bylaws, and such execution or signature shall be binding upon the corporation. All checks and drafts drawn on banks or other depositaries on funds to the credit of the corporation or in special accounts of the corporation shall be signed by such person or persons as the Board of Directors shall authorize so to do. Unless authorized or ratified by the Board of Directors or within the agency power of an officer, no officer, agent or employee shall have any power or authority to bind the corporation by any contract or engagement or to pledge its credit or to render it liable for any purpose or for any amount.
- Section 34. Voting of Securities Owned by the Corporation. All stock and other securities of other corporations owned or held by the corporation for itself, or for other parties in any capacity, shall be voted, and all proxies with respect thereto shall be executed, by the person authorized so to do by resolution of the Board of Directors, or, in the absence of such authorization, by the Chairperson of the Board of Directors, the Chief Executive Officer, the President, or any Vice President.

ARTICLE VII

SHARES OF STOCK

Section 35. Form and Execution of Certificates. The shares of the corporation shall be represented by certificates, or shall be uncertificated if so provided by resolution or resolutions of the Board of Directors. Certificates for the shares of stock, if any, shall be in such form as is consistent with the Certificate of Incorporation and applicable law. Every holder of stock in the corporation represented by certificate shall be entitled to have a certificate signed by or in the name of the corporation by the

Chairperson of the Board of Directors, or the President or any Vice President and by the Treasurer or Assistant Treasurer or the Secretary or Assistant Secretary, certifying the number of shares owned by him in the corporation. Any or all of the signatures on the certificate may be facsimiles. In case any officer, transfer agent, or registrar who has signed or whose facsimile signature has been placed upon a certificate shall have ceased to be such officer, transfer agent, or registrar before such certificate is issued, it may be issued with the same effect as if he were such officer, transfer agent, or registrar at the date of issue.

Section 36. Lost Certificates. A new certificate or certificates shall be issued in place of any certificate or certificates theretofore issued by the corporation alleged to have been lost, stolen, or destroyed, upon the making of an affidavit of that fact by the person claiming the certificate of stock to be lost, stolen, or destroyed. The corporation may require, as a condition precedent to the issuance of a new certificate or certificates, the owner of such lost, stolen, or destroyed certificates, or the owner's legal representative, to agree to indemnify the corporation in such manner as it shall require or to give the corporation a surety bond in such form and amount as it may direct as indemnity against any claim that may be made against the corporation with respect to the certificate alleged to have been lost, stolen, or destroyed.

Section 37. Transfers.

- (a) Transfers of record of shares of stock of the corporation shall be made only upon its books by the holders thereof, in person or by attorney duly authorized, and, in the case of stock represented by certificate, upon the surrender of a properly endorsed certificate or certificates for a like number of shares.
- **(b)** The corporation shall have power to enter into and perform any agreement with any number of stockholders of any one or more classes of stock of the corporation to restrict the transfer of shares of stock of the corporation of any one or more classes owned by such stockholders in any manner not prohibited by the DGCL.

Section 38. Fixing Record Dates.

- (a) In order that the corporation may determine the stockholders entitled to notice of or to vote at any meeting of stockholders or any adjournment thereof, the Board of Directors may fix a record date, which record date shall not precede the date upon which the resolution fixing the record date is adopted by the Board of Directors, and which record date shall, subject to applicable law, not be more than sixty (60) nor less than ten (10) days before the date of such meeting. If no record date is fixed by the Board of Directors, the record date for determining stockholders entitled to notice of or to vote at a meeting of stockholders shall be at the close of business on the day next preceding the day on which notice is given, or if notice is waived, at the close of business on the day next preceding the day on which the meeting is held. A determination of stockholders of record entitled to notice of or to vote at a meeting of stockholders shall apply to any adjournment of the meeting; provided, however, that the Board of Directors may fix a new record date for the adjourned meeting.
- (b) In order that the corporation may determine the stockholders entitled to receive payment of any dividend or other distribution or allotment of any rights or the stockholders entitled to exercise any rights in respect of any change, conversion or exchange of stock, or for the purpose of any other lawful action, the Board of Directors may fix, in advance, a record date, which record date shall not precede the date upon which the resolution fixing the record date is adopted, and which record date shall be not more than sixty (60) days prior to such action. If no record date is fixed, the record date for determining stockholders for any such purpose shall be at the close of business on the day on which the Board of Directors adopts the resolution relating thereto.

Section 39. Registered Stockholders. The corporation shall be entitled to recognize the exclusive right of a person registered on its books as the owner of shares to receive dividends, and to vote as such owner, and shall not be bound to recognize any equitable or other claim to or interest in such share or shares on the part of any other person whether or not it shall have express or other notice thereof, except as otherwise provided by the laws of Delaware.

ARTICLE VIII

OTHER SECURITIES OF THE CORPORATION

Section 40. Execution of Other Securities. All bonds, debentures and other corporate securities of the corporation, other than stock certificates (covered in Section 36), may be signed by the Chairperson of the Board of Directors, the Chief Executive Officer, the President or any Vice President, or such other person as may be authorized by the Board of Directors, and the corporate seal impressed thereon or a facsimile of such seal imprinted thereon and attested by the signature of the Secretary or an Assistant Secretary, or the Chief Financial Officer or Treasurer or an Assistant Treasurer; provided, however, that where any such bond, debenture or other corporate security shall be authenticated by the manual signature, or where permissible facsimile signature, of a trustee under an indenture pursuant to which such bond, debenture or other corporate security shall be issued, the signatures of the persons signing and attesting the corporate seal on such bond, debenture or other corporate security may be the imprinted facsimile of the signatures of such persons. Interest coupons appertaining to any such bond, debenture or other corporate security, authenticated by a trustee as aforesaid, shall be signed by the Treasurer or an Assistant Treasurer of the corporation or such other person as may be authorized by the Board of Directors, or bear imprinted thereon the facsimile signature of such person. In case any officer who shall have signed or attested any bond, debenture or other corporate security, or whose facsimile signature shall appear thereon or on any such interest coupon, shall have ceased to be such officer before the bond, debenture or other corporate security so signed or attested shall have been delivered, such bond, debenture or other corporate security nevertheless may be adopted by the corporation and issued and delivered as though the person whos signed the same or whose facsimile signature shall have been used thereon had not ceased to be such officer of the corporation.

ARTICLE IX

DIVIDENDS

Section 41. Declaration of Dividends. Dividends upon the capital stock of the corporation, subject to the provisions of the Certificate of Incorporation and applicable law, if any, may be declared by the Board of Directors pursuant to law at any regular or special meeting. Dividends may be paid in cash, in property, or in shares of the capital stock, subject to the provisions of the Certificate of Incorporation and applicable law.

Section 42. Dividend Reserve. Before payment of any dividend, there may be set aside out of any funds of the corporation available for dividends such sum or sums as the Board of Directors from time to time, in their absolute discretion, think proper as a reserve or reserves to meet contingencies, or for equalizing dividends, or for repairing or maintaining any property of the corporation, or for such other purpose as the Board of Directors shall think conducive to the interests of the corporation, and the Board of Directors may modify or abolish any such reserve in the manner in which it was created.

ARTICLE X

FISCAL YEAR

Section 43. Fiscal Year. The fiscal year of the corporation shall be fixed by resolution of the Board of Directors.

ARTICLE XI

INDEMNIFICATION

Section 44. Indemnification of Directors, Officers, Employees and Other Agents.

- (a) Directors and Officers. The corporation shall indemnify its directors and officers to the fullest extent not prohibited by the DGCL or any other applicable law; provided, however, that the corporation may modify the extent of such indemnification by individual contracts with its directors and officers; and, provided, further, that the corporation shall not be required to indemnify any director or officer in connection with any proceeding (or part thereof) initiated by such person unless (i) such indemnification is expressly required to be made by law, (ii) the proceeding was authorized by the Board of Directors of the corporation, (iii) such indemnification is provided by the corporation, in its sole discretion, pursuant to the powers vested in the corporation under the DGCL or any other applicable law or (iv) such indemnification is required to be made under paragraph (d) of this Section 45.
- **(b) Employees and other Agents.** The corporation shall have power to indemnify its employees and other agents as set forth in the DGCL or any other applicable law. The Board of Directors shall have the power to delegate the determination of whether indemnification shall be given to any such person as the Board of Directors shall determine.
- (c) Expenses. The corporation shall advance to any person who was or is a party or is threatened to be made a party to any threatened, pending or completed action, suit or proceeding, whether civil, criminal, administrative or investigative, by reason of the fact that he is or was a director or officer, of the corporation, or is or was serving at the request of the corporation as a director or officer of another corporation, partnership, joint venture, trust or other enterprise, prior to the final disposition of the proceeding, promptly following request therefor, all expenses incurred by any director or officer in connection with such proceeding provided, however, that if the DGCL requires, an advancement of expenses incurred by a director or officer in his or her capacity as a director or officer (and not in any other capacity in which service was or is rendered by such indemnitee, including, without limitation, service to an employee benefit plan) shall be made only upon delivery to the corporation of an undertaking (hereinafter an "undertaking"), by or on behalf of such indemnitee, to repay all amounts so advanced if it shall ultimately be determined by final judicial decision from which there is no further right to appeal (hereinafter a "final adjudication") that such indemnitee is not entitled to be indemnified for such expenses under this Section 45 or otherwise. Notwithstanding the foregoing, unless otherwise determined pursuant to paragraph (e) of this Section 45, no advance shall be made by the corporation to an officer of the corporation (except by reason of the fact that such officer is or was a director of the corporation in which event this Section 45, no advance shall be advanced in a proceeding, whether civil, criminal, administrative or investigative, if a determination is reasonably and promptly made (i) by a majority vote of directors who were not parties to the proceeding, even if not a quorum, or (ii) by a committee of such directors designated by a majority vote of such directors, even tho

demonstrate clearly and convincingly that such person acted in bad faith or in a manner that such person did not believe to be in or not opposed to the best interests of the corporati	demonstrate clearly	and convincingly	v that such i	person acted in ba	d faith or in a	manner that such	person did not	believe to be	in or not opp	osed to the bes	t interests of tl	he corporati
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- **(d) Enforcement.** Without the necessity of entering into an express contract, all rights to indemnification and advances to directors and officers under this Section 45 shall be deemed to be contractual rights and be effective to the same extent and as if provided for in a contract between the corporation and the director or officer. Any right to indemnification or advances granted by this Section 45 to a director or officer shall be enforceable by or on behalf of the person holding such right in any court of competent jurisdiction if (i) the claim for indemnification or advances is denied, in whole or in part, or (ii) no disposition of such claim is made within ninety (90) days of request therefor. To the extent permitted by law, the claimant in such enforcement action, if successful in whole or in part, shall be entitled to be paid also the expense of prosecuting the claim. In connection with any claim for indemnification, the corporation shall be entitled to raise as a defense to any such action that the claimant has not met the standards of conduct that make it permissible under the DGCL or any other applicable law for the corporation to indemnify the claimant for the amount claimed. In connection with any claim by an officer of the corporation (except in any action, suit or proceeding, whether civil, criminal, administrative or investigative, by reason of the fact that such officer is or was a director of the corporation) for advances, the corporation shall be entitled to raise a defense as to any such action clear and convincing evidence that such person acted in bad faith or in a manner that such person did not believe to be in or not opposed to the best interests of the corporation, or with respect to any criminal action or proceeding that such person acted without reasonable cause to believe that his or her conduct was lawful. Neither the failure of the corporation (including its Board of Directors, independent legal counsel or its stockholders) to have made a determination prior to the commencement
- **(e) Non-Exclusivity of Rights.** The rights conferred on any person by this Section 45 shall not be exclusive of any other right which such person may have or hereafter acquire under any applicable statute, provision of the Certificate of Incorporation, Bylaws, agreement, vote of stockholders or disinterested directors or otherwise, both as to action in his or her official capacity and as to action in another capacity while holding office. The corporation is specifically authorized to enter into individual contracts with any or all of its directors, officers, employees or agents respecting indemnification and advances, to the fullest extent not prohibited by the DGCL or any other applicable law.
- **(f) Survival of Rights.** The rights conferred on any person by this Section 45 shall continue as to a person who has ceased to be a director, officer, employee or other agent and shall inure to the benefit of the heirs, executors and administrators of such a person.
- **(g) Insurance.** To the fullest extent permitted by the DGCL or any other applicable law, the corporation, upon approval by the Board of Directors, may purchase insurance on behalf of any person required or permitted to be indemnified pursuant to this Section 45.
- (h) Amendments. Any repeal or modification of this Section 45 shall only be prospective and shall not affect the rights under this Section 45 in effect at the time of the alleged

occurrence of any action or omission to act that is the cause of any proceeding against any agent of the corporation.

- (i) Saving Clause. If this Section 45 or any portion hereof shall be invalidated on any ground by any court of competent jurisdiction, then the corporation shall nevertheless indemnify each director and officer to the full extent not prohibited by any applicable portion of this Section 45 that shall not have been invalidated, or by any other applicable law. If this Section 45 shall be invalid due to the application of the indemnification provisions of another jurisdiction, then the corporation shall indemnify each director and executive officer to the full extent under any other applicable law.
 - (j) Certain Definitions. For the purposes of this Section 45, the following definitions shall apply:
- (1) The term "proceeding" shall be broadly construed and shall include, without limitation, the investigation, preparation, prosecution, defense, settlement, arbitration and appeal of, and the giving of testimony in, any threatened, pending or completed action, suit or proceeding, whether civil, criminal, administrative or investigative.
- (2) The term "expenses" shall be broadly construed and shall include, without limitation, court costs, attorneys' fees, witness fees, fines, amounts paid in settlement or judgment and any other costs and expenses of any nature or kind incurred in connection with any proceeding.
- (3) The term the "corporation" shall include, in addition to the resulting corporation, any constituent corporation (including any constituent of a constituent) absorbed in a consolidation or merger which, if its separate existence had continued, would have had power and authority to indemnify its directors, officers, and employees or agents, so that any person who is or was a director, officer, employee or agent of such constituent corporation, or is or was serving at the request of such constituent corporation as a director, officer, employee or agent of another corporation, partnership, joint venture, trust or other enterprise, shall stand in the same position under the provisions of this Section 45 with respect to the resulting or surviving corporation as he would have with respect to such constituent corporation if its separate existence had continued.
- (4) References to a "director," "executive officer," "employee," or "agent" of the corporation shall include, without limitation, situations where such person is serving at the request of the corporation as, respectively, a director, executive officer, officer, employee, trustee or agent of another corporation, partnership, joint venture, trust or other enterprise.
- References to "other enterprises" shall include employee benefit plans; references to "fines" shall include any excise taxes assessed on a person with respect to an employee benefit plan; and references to "serving at the request of the corporation" shall include any service as a director, officer, employee or agent of the corporation which imposes duties on, or involves services by, such director, officer, employee, or agent with respect to an employee benefit plan, its participants, or beneficiaries; and a person who acted in good faith and in a manner he reasonably believed to be in the interest of the participants and beneficiaries of an employee benefit plan shall be deemed to have acted in a manner "not opposed to the best interests of the corporation" as referred to in this section.

ARTICLE XII

NOTICES

Section 45. Notices.

- (a) Notice to Stockholders. Written notice to stockholder of stockholder meetings shall be given as provided in Section 7 herein. Without limiting the manner by which notice may otherwise be given effectively to stockholders under any agreement or contract with such stockholder, and except as otherwise required by law, written notice to stockholders for purposes other than stockholder meetings may be sent by United States mail or nationally recognized overnight courier, or by facsimile, telegraph or telex or by electronic mail or other electronic means.
- **(b) Notice to Directors.** Any notice required to be given to any director may be given by the method stated in subsection (a) or as otherwise provided in these Bylaws. If such notice is not delivered personally, it shall be sent to such address as such director shall have filed in writing with the Secretary, or, in the absence of such filing, to the last known post office address of such director.
- (c) Affidavit of Mailing. An affidavit of mailing, executed by a duly authorized and competent employee of the corporation or its transfer agent appointed with respect to the class of stock affected or other agent, specifying the name and address or the names and addresses of the stockholder or stockholders, or director or directors, to whom any such notice or notices was or were given, and the time and method of giving the same, shall in the absence of fraud, be prima facie evidence of the facts therein contained.
- (d) Methods of Notice. It shall not be necessary that the same method of giving notice be employed in respect of all recipients of notice, but one permissible method may be employed in respect of any one or more, and any other permissible method or methods may be employed in respect of any other or others.
- (e) Notice to Person with Whom Communication is Unlawful. Whenever notice is required to be given, under any provision of law or of the Certificate of Incorporation or Bylaws of the corporation, to any person with whom communication is unlawful, the giving of such notice to such person shall not be required and there shall be no duty to apply to any governmental authority or agency for a license or permit to give such notice to such person. Any action or meeting which shall be taken or held without notice to any such person with whom communication is unlawful shall have the same force and effect as if such notice had been duly given. In the event that the action taken by the corporation is such as to require the filing of a certificate under any provision of the DGCL, the certificate shall state, if such is the fact and if notice is required, that notice was given to all persons entitled to receive notice except such persons with whom communication is unlawful.
- (f) Notice to Stockholders Sharing an Address. Except as otherwise prohibited under DGCL, any notice given under the provisions of DGCL, the Certificate of Incorporation or the Bylaws shall be effective if given by a single written notice to stockholders who share an address if consented to by the stockholders at that address to whom such notice is given. Such consent shall have been deemed to have been given if such stockholder fails to object in writing to the corporation within sixty (60) days of having been given notice by the corporation of its intention to send the single notice. Any consent shall be revocable by the stockholder by written notice to the corporation.

ARTICLE XIII

AMENDMENTS

Section 46. Amendments. Subject to the limitations set forth in Section 45(h) of these Bylaws or the provisions of the Certificate of Incorporation, the Board of Directors is expressly empowered to adopt, amend or repeal the Bylaws of the corporation. The stockholders also shall have power to adopt, amend or repeal the Bylaws of the corporation; provided, however, that, in addition to any vote of the holders of any class or series of stock of the corporation required by law or by the Certificate of Incorporation, such action by stockholders shall require the affirmative vote of the holders of sixty-six and two-thirds percent (66 2/3%) of the voting power of all of the then-outstanding shares of the capital stock of the corporation entitled to vote generally in the election of directors, voting together as a single class.

ONCOBIOLOGICS, INC.

2016 EMPLOYEE STOCK PURCHASE PLAN

Adopted by the Board of Directors: January 28, 2016 Approved by the Stockholders: January 28, 2016

1. General; Purpose.

- (a) The Plan provides a means by which Eligible Employees of the Company and certain designated Related Corporations may be given an opportunity to purchase shares of Common Stock. The Plan permits the Company to grant a series of Purchase Rights to Eligible Employees under an Employee Stock Purchase Plan.
- **(b)** The Company, by means of the Plan, seeks to retain the services of such Employees, to secure and retain the services of new Employees and to provide incentives for such persons to exert maximum efforts for the success of the Company and its Related Corporations.

2. Administration.

- (a) The Board will administer the Plan unless and until the Board delegates administration of the Plan to a Committee or Committees, as provided in Section 2(c).
- (b) The Board will have the power, subject to, and within the limitations of, the express provisions of the Plan:
 - (i) To determine how and when Purchase Rights will be granted and the provisions of each Offering (which need not be identical).
 - (ii) To designate from time to time which Related Corporations of the Company will be eligible to participate in the Plan.
- (iii) To construe and interpret the Plan and Purchase Rights, and to establish, amend and revoke rules and regulations for its administration. The Board, in the exercise of this power, may correct any defect, omission or inconsistency in the Plan, in a manner and to the extent it deems necessary or expedient to make the Plan fully effective.
 - (iv) To settle all controversies regarding the Plan and Purchase Rights granted under the Plan.
 - (v) To suspend or terminate the Plan at any time as provided in Section 12.
 - (vi) To amend the Plan at any time as provided in Section 12.
- (vii) Generally, to exercise such powers and to perform such acts as it deems necessary or expedient to promote the best interests of the Company and its Related Corporations and to carry out the intent that the Plan be treated as an Employee Stock Purchase Plan.

- (viii) To adopt such procedures and sub-plans as are necessary or appropriate to permit participation in the Plan by Employees who are foreign nationals or employed outside the United States.
- (c) The Board may delegate some or all of the administration of the Plan to a Committee or Committees. If administration is delegated to a Committee, the Committee will have, in connection with the administration of the Plan, the powers theretofore possessed by the Board that have been delegated to the Committee, including the power to delegate to a subcommittee any of the administrative powers the Committee is authorized to exercise (and references in this Plan to the Board will thereafter be to the Committee or subcommittee), subject, however, to such resolutions, not inconsistent with the provisions of the Plan, as may be adopted from time to time by the Board. The Board may retain the authority to concurrently administer the Plan with the Committee and may, at any time, revest in the Board some or all of the powers previously delegated. Whether or not the Board has delegated administration of the Plan to a Committee, the Board will have the final power to determine all questions of policy and expediency that may arise in the administration of the Plan.
- (d) All determinations, interpretations and constructions made by the Board in good faith will not be subject to review by any person and will be final, binding and conclusive on all persons.

3. SHARES OF COMMON STOCK SUBJECT TO THE PLAN.

- (a) Subject to the provisions of Section 11(a) relating to Capitalization Adjustments, the maximum number of shares of Common Stock that may be issued under the Plan will not exceed 1,000,000 shares of Common Stock, plus the number of shares of Common Stock that are automatically added on January 1st of each year for a period of up to ten years, commencing on the first January 1 following the IPO Date and ending on (and including) January 1, 2026, in an amount equal to the lesser of (i) 1% of the total number of shares of Capital Stock outstanding on December 31st of the preceding calendar year, and (ii) 1,760,000 shares of Common Stock. Notwithstanding the foregoing, the Board may act prior to the first day of any calendar year to provide that there will be no January 1st increase in the share reserve for such calendar year or that the increase in the share reserve for such calendar year will be a lesser number of shares of Common Stock than would otherwise occur pursuant to the preceding sentence.
- **(b)** If any Purchase Right granted under the Plan terminates without having been exercised in full, the shares of Common Stock not purchased under such Purchase Right will again become available for issuance under the Plan.
- (c) The stock purchasable under the Plan will be shares of authorized but unissued or reacquired Common Stock, including shares repurchased by the Company on the open market.

4. Grant of Purchase Rights; Offering.

(a) The Board may from time to time grant or provide for the grant of Purchase Rights to Eligible Employees under an Offering (consisting of one or more Purchase Periods) on an Offering Date or Offering Dates selected by the Board. Each Offering will be in such form and will contain such terms and conditions as the Board will deem appropriate, and will comply

with the requirement of Section 423(b)(5) of the Code that all Employees granted Purchase Rights will have the same rights and privileges. The terms and conditions of an Offering shall be incorporated by reference into the Plan and treated as part of the Plan. The provisions of separate Offerings need not be identical, but each Offering will include (through incorporation of the provisions of this Plan by reference in the document comprising the Offering or otherwise) the period during which the Offering will be effective, which period will not exceed 27 months beginning with the Offering Date, and the substance of the provisions contained in Sections 5 through 8, inclusive.

- **(b)** If a Participant has more than one Purchase Right outstanding under the Plan, unless he or she otherwise indicates in forms delivered to the Company: (i) each form will apply to all of his or her Purchase Rights under the Plan, and (ii) a Purchase Right with a lower exercise price (or an earlier-granted Purchase Right, if different Purchase Rights have identical exercise prices) will be exercised to the fullest possible extent before a Purchase Right with a higher exercise price (or a later-granted Purchase Right if different Purchase Rights have identical exercise prices) will be exercised.
- (c) The Board will have the discretion to structure an Offering so that if the Fair Market Value of a share of Common Stock on the first Trading Day of a new Purchase Period within that Offering is less than or equal to the Fair Market Value of a share of Common Stock on the Offering Date for that Offering, then (i) that Offering will terminate immediately as of that first Trading Day, and (ii) the Participants in such terminated Offering will be automatically enrolled in a new Offering beginning on the first Trading Day of such new Purchase Period.

5. Eligibility.

- (a) Purchase Rights may be granted only to Employees of the Company or, as the Board may designate in accordance with Section 2(b), to Employees of a Related Corporation. Except as provided in Section 5(b), an Employee will not be eligible to be granted Purchase Rights unless, on the Offering Date, the Employee has been in the employ of the Company or the Related Corporation, as the case may be, for such continuous period preceding such Offering Date as the Board may require, but in no event will the required period of continuous employment be equal to or greater than two years. In addition, the Board may provide that no Employee will be eligible to be granted Purchase Rights under the Plan unless, on the Offering Date, such Employee's customary employment with the Company or the Related Corporation is more than 20 hours per week and more than five months per calendar year or such other criteria as the Board may determine consistent with Section 423 of the Code.
- (b) The Board may provide that each person who, during the course of an Offering, first becomes an Eligible Employee will, on a date or dates specified in the Offering which coincides with the day on which such person becomes an Eligible Employee or which occurs thereafter, receive a Purchase Right under that Offering, which Purchase Right will thereafter be deemed to be a part of that Offering. Such Purchase Right will have the same characteristics as any Purchase Rights originally granted under that Offering, as described herein, except that:

- (i) the date on which such Purchase Right is granted will be the "Offering Date" of such Purchase Right for all purposes, including determination of the exercise price of such Purchase Right;
 - (ii) the period of the Offering with respect to such Purchase Right will begin on its Offering Date and end coincident with the end of such Offering; and
- (iii) the Board may provide that if such person first becomes an Eligible Employee within a specified period of time before the end of the Offering, he or she will not receive any Purchase Right under that Offering.
- (c) No Employee will be eligible for the grant of any Purchase Rights if, immediately after any such Purchase Rights are granted, such Employee owns stock possessing five percent or more of the total combined voting power or value of all classes of stock of the Company or of any Related Corporation. For purposes of this Section 5(c), the rules of Section 424(d) of the Code will apply in determining the stock ownership of any Employee, and stock which such Employee may purchase under all outstanding Purchase Rights and options will be treated as stock owned by such Employee.
- (d) As specified by Section 423(b)(8) of the Code, an Eligible Employee may be granted Purchase Rights only if such Purchase Rights, together with any other rights granted under all Employee Stock Purchase Plans of the Company and any Related Corporations, do not permit such Eligible Employee's rights to purchase stock of the Company or any Related Corporation to accrue at a rate which exceeds \$25,000 of Fair Market Value of such stock (determined at the time such rights are granted, and which, with respect to the Plan, will be determined as of their respective Offering Dates) for each calendar year in which such rights are outstanding at any time.
- (e) Officers of the Company and any designated Related Corporation, if they are otherwise Eligible Employees, will be eligible to participate in Offerings under the Plan. Notwithstanding the foregoing, the Board may provide in an Offering that Employees who are highly compensated Employees within the meaning of Section 423(b)(4)(D) of the Code will not be eligible to participate.

6. Purchase Rights; Purchase Price.

- (a) On each Offering Date, each Eligible Employee, pursuant to an Offering made under the Plan, will be granted a Purchase Right to purchase up to that number of shares of Common Stock purchasable either with a percentage or with a maximum dollar amount, as designated by the Board, but in either case not exceeding 15% of such Employee's earnings (as defined by the Board in each Offering) during the period that begins on the Offering Date (or such later date as the Board determines for a particular Offering) and ends on the date stated in the Offering, which date will be no later than the end of the Offering.
- **(b)** The Board will establish one or more Purchase Dates during an Offering on which Purchase Rights granted for that Offering will be exercised and shares of Common Stock will be purchased in accordance with such Offering.

- (c) In connection with each Offering made under the Plan, the Board may specify (i) a maximum number of shares of Common Stock that may be purchased by any Participant on any Purchase Date during such Offering, (ii) a maximum aggregate number of shares of Common Stock that may be purchased by all Participants pursuant to such Offering and/or (iii) a maximum aggregate number of shares of Common Stock that may be purchased by all Participants pursuant to such Offering and/or (iii) a maximum aggregate number of shares of Common Stock that may be purchased by all Participants on any Purchase Date under the Offering. If the aggregate purchase of shares of Common Stock issuable upon exercise of Purchase Rights granted under the Offering would exceed any such maximum aggregate number, then, in the absence of any Board action otherwise, a pro rata (based on each Participant's accumulated Contributions) allocation of the shares of Common Stock available will be made in as nearly a uniform manner as will be practicable and equitable.
 - (d) The purchase price of shares of Common Stock acquired pursuant to Purchase Rights will be not less than the lesser of:
 - (i) an amount equal to 85% of the Fair Market Value of the shares of Common Stock on the Offering Date; or
 - (ii) an amount equal to 85% of the Fair Market Value of the shares of Common Stock on the applicable Purchase Date.

Participation; Withdrawal; Termination.

- (a) An Eligible Employee may elect to authorize payroll deductions as the means of making Contributions by completing and delivering to the Company, within the time specified in the Offering, an enrollment form provided by the Company. The enrollment form will specify the amount of Contributions not to exceed the maximum amount specified by the Board. Each Participant's Contributions will be credited to a bookkeeping account for such Participant under the Plan and will be deposited with the general funds of the Company except where applicable law requires that Contributions be deposited with a third party. If permitted in the Offering, a Participant may begin such Contributions with the first payroll occurring on or after the Offering Date (or, in the case of a payroll date that occurs after the end of the prior Offering but before the Offering Date of the next new Offering, Contributions from such payroll will be included in the new Offering). If permitted in the Offering, a Participant may thereafter reduce (including to zero) or increase his or her Contributions. If specifically provided in the Offering, in addition to making Contributions by payroll deductions, a Participant may make Contributions through the payment by cash or check prior to a Purchase Date.
- (b) During an Offering, a Participant may cease making Contributions and withdraw from the Offering by delivering to the Company a withdrawal form provided by the Company. The Company may impose a deadline before a Purchase Date for withdrawing. Upon such withdrawal, such Participant's Purchase Right in that Offering will immediately terminate and the Company will distribute to such Participant all of his or her accumulated but unused Contributions and such Participant's Purchase Right in that Offering shall thereupon terminate. A Participant's withdrawal from that Offering will have no effect upon his or her eligibility to participate in any other Offerings under the Plan, but such Participant will be required to deliver a new enrollment form to participate in subsequent Offerings.

- (c) Purchase Rights granted pursuant to any Offering under the Plan will terminate immediately if the Participant either (i) is no longer an Employee for any reason or for no reason (subject to any post-employment participation period required by law) or (ii) is otherwise no longer eligible to participate. The Company will distribute to such individual all of his or her accumulated but unused Contributions.
- (d) During a Participant's lifetime, Purchase Rights will be exercisable only by such Participant. Purchase Rights are not transferable by a Participant, except by will, by the laws of descent and distribution, or, if permitted by the Company, by a beneficiary designation as described in Section 10.
 - (e) Unless otherwise specified in the Offering, the Company will have no obligation to pay interest on Contributions.

8. Exercise of Purchase Rights.

- (a) On each Purchase Date, each Participant's accumulated Contributions will be applied to the purchase of Shares of Common Stock, up to the maximum number of shares of Common Stock permitted by the Plan and the applicable Offering, at the purchase price specified in the Offering. No fractional shares will be issued unless specifically provided for in the Offering.
- (b) If any amount of accumulated Contributions remains in a Participant's account after the purchase of shares of Common Stock and such remaining amount is less than the amount required to purchase one share of Common Stock on the final Purchase Date of an Offering, then such remaining amount will be held in such Participant's account for the purchase of shares of Common Stock under the next Offering under the Plan, unless such Participant withdraws from or is not eligible to participate in such Offering, in which case such amount will be distributed to such Participant after the final Purchase Date, without interest. If the amount of Contributions remaining in a Participant's account after the purchase of Shares of Common Stock is at least equal to the amount required to purchase one whole share of Common Stock on the final Purchase Date of an Offering, then such remaining amount will not roll over to the next Offering and will instead be distributed in full to such Participant after the final Purchase Date of such Offering without interest.
- (c) No Purchase Rights may be exercised to any extent unless the shares of Common Stock to be issued upon such exercise under the Plan are covered by an effective registration statement pursuant to the Securities Act and the Plan is in material compliance with all applicable federal, state, foreign and other securities and other laws applicable to the Plan. If on a Purchase Date the shares of Common Stock are not so registered or the Plan is not in such compliance, no Purchase Rights will be exercised on such Purchase Date, and the Purchase Date will be delayed until the shares of Common Stock are subject to such an effective registration statement and the Plan is in material compliance, except that the Purchase Date will in no event be more than 6 months from the Offering Date. If, on the Purchase Date, as delayed to the maximum extent permissible, the shares of Common Stock are not registered and the Plan is not in material compliance with all applicable laws, no Purchase Rights will be exercised and all accumulated but unused Contributions will be distributed to the Participants without interest.

9. COVENANTS OF THE COMPANY.

The Company will seek to obtain from each federal, state, foreign or other regulatory commission or agency having jurisdiction over the Plan such authority as may be required to grant Purchase Rights and issue and sell shares of Common Stock thereunder. If, after commercially reasonable efforts, the Company is unable to obtain the authority that counsel for the Company deems necessary for the grant of Purchase Rights or the lawful issuance and sale of Common Stock under the Plan, and at a commercially reasonable cost, the Company will be relieved from any liability for failure to grant Purchase Rights and/or to issue and sell Common Stock upon exercise of such Purchase Rights.

10. Designation of Beneficiary.

- (a) The Company may, but is not obligated to, permit a Participant to submit a form designating a beneficiary who will receive any shares of Common Stock and/or Contributions from the Participant's account under the Plan if the Participant dies before such shares and/or Contributions are delivered to the Participant. The Company may, but is not obligated to, permit the Participant to change such designation of beneficiary. Any such designation and/or change must be on a form approved by the Company.
- **(b)** If a Participant dies, and in the absence of a valid beneficiary designation, the Company will deliver any shares of Common Stock and/or Contributions to the executor or administrator of the estate of the Participant. If no executor or administrator has been appointed (to the knowledge of the Company), the Company, in its sole discretion, may deliver such shares of Common Stock and/or Contributions to the Participant's spouse, dependents or relatives, or if no spouse, dependent or relative is known to the Company, then to such other person as the Company may designate.

11. ADJUSTMENTS UPON CHANGES IN COMMON STOCK; CORPORATE TRANSACTIONS.

- (a) In the event of a Capitalization Adjustment, the Board will appropriately and proportionately adjust: (i) the class(es) and maximum number of securities subject to the Plan pursuant to Section 3(a), (ii) the class(es) and maximum number of securities by which the share reserve is to increase automatically each year pursuant to Section 3(a), (iii) the class(es) and number of securities subject to, and the purchase price applicable to outstanding Offerings and Purchase Rights, and (iv) the class(es) and number of securities that are the subject of the purchase limits under each ongoing Offering. The Board will make these adjustments, and its determination will be final, binding and conclusive.
- (b) In the event of a Corporate Transaction, then: (i) any surviving corporation or acquiring corporation (or the surviving or acquiring corporation's parent company) may assume or continue outstanding Purchase Rights or may substitute similar rights (including a right to acquire the same consideration paid to the stockholders in the Corporate Transaction) for outstanding Purchase Rights, or (ii) if any surviving or acquiring corporation (or its parent company) does not assume or continue such Purchase Rights or does not substitute similar rights for such Purchase Rights, then the Participants' accumulated Contributions will be used to purchase shares of Common Stock within ten business days prior to the Corporate Transaction

under the outstanding Purchase Rights, and the Purchase Rights will terminate immediately after such purchase.

12. Amendment, Termination or Suspension of the Plan.

- (a) The Board may amend the Plan at any time in any respect the Board deems necessary or advisable. However, except as provided in Section 11(a) relating to Capitalization Adjustments, stockholder approval will be required for any amendment of the Plan for which stockholder approval is required by applicable law or listing requirements, including any amendment that either (i) materially increases the number of shares of Common Stock available for issuance under the Plan, (ii) materially expands the class of individuals eligible to become Participants and receive Purchase Rights, (iii) materially increases the benefits accruing to Participants under the Plan or materially reduces the price at which shares of Common Stock may be purchased under the Plan, (iv) materially extends the term of the Plan, or (v) expands the types of awards available for issuance under the Plan, but in each of (i) through (v) above only to the extent stockholder approval is required by applicable law or listing requirements.
 - (b) The Board may suspend or terminate the Plan at any time. No Purchase Rights may be granted under the Plan while the Plan is suspended or after it is terminated.
- (c) Any benefits, privileges, entitlements and obligations under any outstanding Purchase Rights granted before an amendment, suspension or termination of the Plan will not be materially impaired by any such amendment, suspension or termination except (i) with the consent of the person to whom such Purchase Rights were granted, (ii) as necessary to comply with any laws, listing requirements, or governmental regulations (including, without limitation, the provisions of Section 423 of the Code and the regulations and other interpretive guidance issued thereunder relating to Employee Stock Purchase Plans) including without limitation any such regulations or other guidance that may be issued or amended after the date the Plan is adopted by the Board, or (iii) as necessary to obtain or maintain favorable tax, listing, or regulatory treatment. To be clear, the Board may amend outstanding Purchase Rights without a Participant's consent if such amendment is necessary to ensure that the Purchase Right and/or the Plan complies with the requirements of Section 423 of the Code.

13. EFFECTIVE DATE OF PLAN.

The Plan will become effective immediately prior to and contingent upon the IPO Date. No Purchase Rights will be exercised unless and until the Plan has been approved by the stockholders of the Company, which approval must be within 12 months before or after the date the Plan is adopted (or if required under Section 12(a) above, materially amended) by the Board.

14. MISCELLANEOUS PROVISIONS.

- (a) Proceeds from the sale of shares of Common Stock pursuant to Purchase Rights will constitute general funds of the Company.
- (b) A Participant will not be deemed to be the holder of, or to have any of the rights of a holder with respect to, shares of Common Stock subject to Purchase Rights unless and until

the Participant's shares of Common Stock acquired upon exercise of Purchase Rights are recorded in the books of the Company (or its transfer agent).

- (c) The Plan and Offering do not constitute an employment contract. Nothing in the Plan or in the Offering will in any way alter the at will nature of a Participant's employment or be deemed to create in any way whatsoever any obligation on the part of any Participant to continue in the employ of the Company or a Related Corporation, or on the part of the Company or a Related Corporation to continue the employment of a Participant.
 - (d) The provisions of the Plan will be governed by the laws of the State of Delaware without resort to that state's conflicts of laws rules.

15. Definitions.

As used in the Plan, the following definitions will apply to the capitalized terms indicated below:

- (a) "Board" means the Board of Directors of the Company.
- (b) "Capital Stock" means each and every class of common stock of the Company, regardless of the number of votes per share.
- (c) "Capitalization Adjustment" means any change that is made in, or other events that occur with respect to, the Common Stock subject to the Plan or subject to any Purchase Right after the date the Plan is adopted by the Board without the receipt of consideration by the Company through merger, consolidation, reorganization, recapitalization, reincorporation, stock dividend, dividend in property other than cash, large nonrecurring cash dividend, stock split, liquidating dividend, combination of shares, exchange of shares, change in corporate structure or other similar equity restructuring transaction, as that term is used in Financial Accounting Standards Board Accounting Standards Codification Topic 718 (or any successor thereto). Notwithstanding the foregoing, the conversion of any convertible securities of the Company will not be treated as a Capitalization Adjustment.
 - (d) "Code" means the Internal Revenue Code of 1986, as amended, including any applicable regulations and guidance thereunder.
 - (e) "Committee" means a committee of one or more members of the Board to whom authority has been delegated by the Board in accordance with Section 2(c).
 - (f) "Common Stock" means, as of the IPO Date, the common stock of the Company, having 1 vote per share.
 - (g) "Company" means Oncobiologics, Inc., a Delaware corporation.
- (h) "Contributions" means the payroll deductions and other additional payments specifically provided for in the Offering that a Participant contributes to fund the exercise of a Purchase Right. A Participant may make additional payments into his or her account if

specifically provided for in the Offering, and then only if the Participant has not already had the maximum permitted amount withheld during the Offering through payroll deductions.

- (i) "Corporate Transaction" means the consummation, in a single transaction or in a series of related transactions, of any one or more of the following events:
 - (i) a sale or other disposition of all or substantially all, as determined by the Board in its sole discretion, of the consolidated assets of the Company and its Subsidiaries;
 - (ii) a sale or other disposition of at least 50% of the outstanding securities of the Company;
 - (iii) a merger, consolidation or similar transaction following which the Company is not the surviving corporation; or
- (iv) a merger, consolidation or similar transaction following which the Company is the surviving corporation but the shares of Common Stock outstanding immediately preceding the merger, consolidation or similar transaction are converted or exchanged by virtue of the merger, consolidation or similar transaction into other property, whether in the form of securities, cash or otherwise.
 - (j) "Director" means a member of the Board.
- (k) "Eligible Employee" means an Employee who meets the requirements set forth in the document(s) governing the Offering for eligibility to participate in the Offering, provided that such Employee also meets the requirements for eligibility to participate set forth in the Plan.
- (I) "Employee" means any person, including an Officer or Director, who is "employed" for purposes of Section 423(b)(4) of the Code by the Company or a Related Corporation. However, service solely as a Director, or payment of a fee for such services, will not cause a Director to be considered an "Employee" for purposes of the Plan.
- (m) "Employee Stock Purchase Plan" means a plan that grants Purchase Rights intended to be options issued under an "employee stock purchase plan," as that term is defined in Section 423(b) of the Code.
 - (n) "Exchange Act" means the Securities Exchange Act of 1934, as amended and the rules and regulations promulgated thereunder.
 - (o) "Fair Market Value" means, as of any date, the value of the Common Stock determined as follows:
- (i) If the Common Stock is listed on any established stock exchange or traded on any established market, the Fair Market Value of a share of Common Stock will be the closing sales price for such stock as quoted on such exchange or market (or the exchange or market with the greatest volume of trading in the Common Stock) on the date of determination, as reported in such source as the Board deems reliable. Unless otherwise provided by the Board, if there is no closing sales price for the Common Stock on the date of determination, then the

Fair Market Value will be the closing sales price on the last preceding date for which such quotation exists.

- (ii) In the absence of such markets for the Common Stock, the Fair Market Value will be determined by the Board in good faith in compliance with applicable laws and in a manner that complies with Sections 409A of the Code.
- (iii) Notwithstanding the foregoing, for any Offering that commences on the IPO Date, the Fair Market Value of the shares of Common Stock on the Offering Date will be the price per share at which shares are first sold to the public in the Company's initial public offering as specified in the final prospectus for that initial public offering.
- (p) "IPO Date" means the date of the underwriting agreement between the Company and the underwriter(s) managing the initial public offering of the Common Stock, pursuant to which the Common Stock is priced for the initial public offering.
- (q) "Offering" means the grant to Eligible Employees of Purchase Rights, with the exercise of those Purchase Rights automatically occurring at the end of one or more Purchase Periods. The terms and conditions of an Offering will generally be set forth in the "Offering Document" approved by the Board for that Offering.
 - (r) "Offering Date" means a date selected by the Board for an Offering to commence.
 - (s) "Officer" means a person who is an officer of the Company or a Related Corporation within the meaning of Section 16 of the Exchange Act.
 - (t) "Participant" means an Eligible Employee who holds an outstanding Purchase Right.
 - (u) "Plan" means this Oncobiologics, Inc. 2016 Employee Stock Purchase Plan.
- (v) "Purchase Date" means one or more dates during an Offering selected by the Board on which Purchase Rights will be exercised and on which purchases of shares of Common Stock will be carried out in accordance with such Offering.
- (w) "Purchase Period" means a period of time specified within an Offering, generally beginning on the Offering Date or on the first Trading Day following a Purchase Date, and ending on a Purchase Date. An Offering may consist of one or more Purchase Periods.
 - (x) "Purchase Right" means an option to purchase shares of Common Stock granted pursuant to the Plan.
- (y) "Related Corporation" means any "parent corporation" or "subsidiary corporation" of the Company whether now or subsequently established, as those terms are defined in Sections 424(e) and (f), respectively, of the Code.
 - (z) "Securities Act" means the Securities Act of 1933, as amended.
- (aa) "Trading Day" means any day on which the exchange(s) or market(s) on which shares of Common Stock are listed, including but not limited to the NYSE, Nasdaq Global Select Market, the Nasdaq Global Market, the Nasdaq Global Market, the Nasdaq Capital Market or any successors thereto, is open for trading.

Consent of Independent Registered Public Accounting Firm

The Board of Directors Oncobiologics, Inc.:

We consent to the use of our report included herein and to the reference to our firm under the heading "Experts" in the prospectus. Our report dated November 16, 2015 contains an explanatory paragraph that states that Oncobiologics, Inc. has incurred recurring losses and negative cash flows from operations since inception and has an accumulated deficit at September 30, 2015 of \$94.1 million and \$14.2 million of indebtedness that is due on demand, which raises substantial doubt about its ability to continue as a going concern. The consolidated financial statements do not include any adjustments that might result from the outcome of this uncertainty.

/s/ KPMG LLP

Philadelphia, Pennsylvania February 12, 2016