# UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

# Form 8-K

## **Current Report**

Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): November 16, 2017

# AXOGEN, INC.

(Exact name of registrant as specified in its charter)

| Minnesota                       | 001-36046                | 41-1301878                        |
|---------------------------------|--------------------------|-----------------------------------|
| (State or other jurisdiction of | (Commission File Number) | (IRS Employer Identification No.) |
| incorporation)                  |                          |                                   |

13631 Progress Boulevard, Suite 400,

Alachua, Florida

(Address of Principal Executive Offices)

32615 (Zip Code)

(386) 462-6800

Registrant's telephone number, including area code

(Former name or former address if changed since last report,)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

□ Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)

□ Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)

□ Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))

□ Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (§230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§240.12b-2 of this chapter).

Emerging Growth Company  $\Box$ 

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.  $\Box$ 

### Item 1.01. Entry into a Material Definitive Agreement.

On November 16, 2017, AxoGen, Inc., a Minnesota corporation (the "Company"), entered into a certain underwriting agreement (the "Underwriting Agreement") with Leerink Partners LLC, as representative of the several underwriters named therein (collectively, the "Underwriters") and EW Healthcare Partners L.P. (the "Selling Shareholder"), pursuant to which (i) the Company agreed to issue and sell 700,000 shares (the "Primary Shares") of the Company's common stock, par value \$0.01 per share ("Common Stock"), pursuant to a registration statement on Form S-3 (File No. 333-207829), filed with the United States Securities and Exchange Commission (the "SEC") on November 5, 2015, and declared effective by the SEC on December 11, 2015, and the prospectus contained therein, as supplemented by the prospectus supplement dated November 16, 2017 (the "Prospectus Supplement"), and (ii) the Selling Shareholder agreed to sell 1,000,000 shares (the "Secondary Shares," and together with the Primary Shares, the "Shares"), pursuant to a registration statement on Form S-3 (File No. 333-220770), filed with the SEC on October 2, 2017, and declared effective by the SEC on October 11, 2017, and the prospectus contained therein, as supplemented by the Prospectus Supplement, in an underwritten registered public offering at an offering price of \$21.00 per Share (the "Offering"). The Company and the Selling Shareholder granted the Underwriters a 30-day option to purchase up to an aggregate of 255,000 additional Shares, at the public offering price, less the underwriting discounts and commissions, which was exercised in full on November 16, 2017.

The Offering closed on November 20, 2017, and the Company received net proceeds of approximately \$15.4 million from the sale of the Primary Shares, which includes 105,000 additional Shares issued upon exercise of the Underwriters' option to purchase additional shares, after deducting the underwriting discounts and commissions and estimated offering expenses. The Company intends to use the net proceeds from this Offering for general corporate purposes. The Company's management will retain broad discretion over the allocation of the net proceeds. The Company did not receive any of the proceeds from the sale of the Secondary Shares by the Selling Shareholder.

The Underwriting Agreement contains customary representations and warranties, agreements and obligations, closing conditions and termination provisions. The Company has agreed to indemnify the Underwriters against certain liabilities, including liabilities under the Securities Act, and to contribute to payments the Underwriters may be required to make because of any of those liabilities. In addition, subject to certain exceptions, the Company and its officers and directors have agreed not to offer, sell, transfer or otherwise dispose of any shares of Common Stock during the 90-day period following the date of the Prospectus Supplement, except that Jamie Grooms, Chairman of the Board may sell up to 125,000 of his shares during this time, and the Selling Shareholder has agreed not to offer, sell, transfer or otherwise dispose of Common Stock during the date of the Prospectus Supplement, stock during the 180-day period following the date of the Prospectus Supplement.

A copy of the Underwriting Agreement is attached as Exhibit 1.1 hereto and is incorporated herein by reference. The foregoing description of the Underwriting Agreement does not purport to be complete and is qualified in its entirety by reference to such exhibit. The provisions of the Underwriting Agreement, including the representations and warranties contained therein, are not for the benefit of any party other than the parties to such agreement and are not intended as a document for investors and the public to obtain factual information about the current state of affairs of the Company. Rather, investors and the public should look to other disclosures contained in the Company's filings with the Commission.

A copy of the legal opinion and consent of DLA Piper LLP (US) relating to the Offering is attached as Exhibit 5.1 hereto.

#### Item 7.01. Regulation FD Disclosure.

On November 20, 2017, at the Company's Analyst and Investor Day held at the LeParker Meridien Hotel in New York, New York, the Company delivered a presentation entitled "Second Annual Analyst and Investor Day November 20, 2017." The full text of the presentation is attached to this current report on Form 8-K as Exhibit 99.4, and is incorporated by reference herein.

#### Item 8.01. Other Events

The full text of the press releases announcing the proposed Offering on November 15, 2017, the pricing of the Offering on November 16, 2017 and the closing of the Offering on November 20, 2017 are attached as Exhibits 99.1, 99.2 and 99.3 hereto and are incorporated herein by reference.

### Item 9.01. Financial Statements and Exhibits

| (d)               | Exhibits  |
|-------------------|---|
| Exhibit No<br>1.1 | Description<br>Underwriting Agreement by and between the Company, EW Healthcare Partners L.P. and<br>Leerink Partners LLC, as representative of the underwriters named therein, dated November<br>16, 2017. |
| 5.1               | Opinion of DLA Piper LLP (US).  |
| 23.1              | Consent of DLA Piper LLP (US) (included in Exhibit 5.1).  |
| 99.1              | Press Release of the Company dated November 15, 2017.   |
| 99.2              | Press Release of the Company dated November 16, 2017.   |
| 99.3              | Press Release of the Company dated November 20, 2017.   |
| 99.4              | Analyst and Investor Day Presentation: Second Annual Analyst and Investor Day November 20, 2017.  |

# EXHIBIT INDEX

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| 99.3        | Press Release of the Company dated November 20, 2017.  |  |
| 99.4        | Analyst and Investor Day Presentation: Second Annual Analyst and Investor Day November 20, 2017.   |  |

# SIGNATURE

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

# AXOGEN, INC.

Date: November 21, 2017

By: /s/ Gregory G. Freitag

Gregory G. Freitag General Counsel & Senior VP of Business Development

#### AxoGen, Inc.

(a Minnesota corporation)

1,700,000 Shares of Common Stock

## UNDERWRITING AGREEMENT

November 16, 2017

Leerink Partners LLC as Representative of the several Underwriters

c/o Leerink Partners LLC 299 Park Avenue, 21st floor New York, NY 10176

Ladies and Gentlemen:

AxoGen, Inc., a Minnesota corporation (the "<u>Company</u>"), and EW Healthcare Partners L.P. (the "<u>Selling Shareholder</u>") confirm their respective agreements with Leerink Partners LLC ("<u>Leerink</u>") and each of the other Underwriters named in <u>Schedule A-1</u> hereto (collectively, the "<u>Underwriters</u>," which term shall also include any underwriter substituted as hereinafter provided in Section 10 hereof), for which Leerink is acting as representative (in such capacity, the "<u>Representative</u>"), with respect to (i) the sale by the Company and the Selling Shareholder, acting severally and not jointly, and the purchase by the Underwriters, acting severally and not jointly, of the respective numbers of shares of common stock, par value \$0.01 per share, of the Company ("<u>Common Stock</u>") set forth in <u>Schedule A-1</u> hereto and (ii) the grant by the Company and the Selling Shareholder, acting severally and not jointly, to the Underwriters, acting severally and not jointly, of the option described in Section 2(b) hereof to purchase all or any part of 255,000 additional shares of Common Stock. The aforesaid 1,700,000 shares of Common Stock (the "<u>Initial Securities</u>") to be purchased by the Underwriters and all or any part of the 255,000 shares of Common Stock subject to the option described in Section 2(b) hereof (the "<u>Option Securities</u>") are herein called, collectively, the "<u>Securities</u>."

The Company and the Selling Shareholder understand that the Underwriters propose to make a public offering of the Securities as soon as the Representative deems advisable after this Underwriting Agreement (this "Agreement") has been executed and delivered.

The Company has filed with the Securities and Exchange Commission (the '<u>Commission</u>") shelf registration statements on Form S-3 (Nos. 333-207829 and 333-220770), in each case including a base prospectus covering the public offering and sale of certain securities, including the Securities, under the Securities Act of 1933, as amended (the "<u>1933 Act</u>") and the rules and regulations of the Commission promulgated thereunder (the "<u>1933 Act Regulations</u>"), which shelf registration statements were declared effective on December 11, 2015 and October 11, 2017, respectively. Each such registration statement, as of any time, means such registration statement as amended by any post-effective amendments thereto at such time, including the exhibits and any schedules thereto at such time, the documents incorporated or deemed to be incorporated by reference therein at such time pursuant to Item 12 of Form S-3 under the 1933 Act Regulations ("<u>Rule 430B</u>"), and is referred to herein individually as a "Registration

Statement," and collectively as the "Registration Statements;" provided, however, that a "Registration Statement" without reference to a time means such registration statement as amended by any post-effective amendments thereto as of the time of the first contract of sale for the Securities, which time shall be considered the "new effective date" of such registration statements with respect to the Securities within the meaning of paragraph (f)(2)of Rule 430B, including the exhibits and schedules thereto as of such time, the documents incorporated or deemed incorporated by reference therein at such time pursuant to Item 12 of Form S-3 under the 1933 Act and the documents otherwise deemed to be a part thereof as of such time pursuant to the Rule 430B. Any registration statement filed pursuant to Rule 462(b) of the 1933 Act Regulations in connection with the offer and sale of the Securities is herein called the "Rule 462(b) Registration Statement" and, after such filing, the term "Registration Statement" shall include the Rule 462(b) Registration Statement. Each preliminary prospectus used in connection with the offering of the Securities, including the documents incorporated or deemed to be incorporated by reference therein pursuant to Item 12 of Form S-3 under the 1933 Act, are collectively referred to herein as a "preliminary prospectus." Promptly after execution and delivery of this Agreement, the Company will prepare and file a final prospectus relating to the Securities in accordance with the provisions of Rule 424(b) under the 1933 Act Regulations ("Rule 424(b)"). The final prospectus, in the form first furnished or made available to the Underwriters for use in connection with the offering of the Securities, including the documents incorporated or deemed to be incorporated by reference therein pursuant to Item 12 of Form S-3 under the 1933 Act, are collectively referred to herein as the "Prospectus." For purposes of this Agreement, all references to the Registration Statement, any preliminary prospectus, the Prospectus or any amendment or supplement to any of the foregoing shall be deemed to include the copy filed with the Commission pursuant to its Electronic Data Gathering, Analysis and Retrieval system (or any successor system)("EDGAR").

As used in this Agreement:

"Applicable Time" means 8:00 A.M., New York City time, on November 16, 2017 or such other time as agreed by the Company and the Representative.

"General Disclosure Package" means any Issuer General Use Free Writing Prospectuses issued at or prior to the Applicable Time, the most recent preliminary prospectus (including any documents incorporated therein by reference) that is distributed to investors prior to the Applicable Time and the information included on <u>Schedule B-1</u> hereto, all considered together.

"Issuer Free Writing Prospectus" means any "issuer free writing prospectus," as defined in Rule 433 of the 1933 Act Regulations ("<u>Rule 433</u>"), including without limitation any "free writing prospectus" (as defined in Rule 405 of the 1933 Act Regulations ("<u>Rule 405</u>")) relating to the Securities that is (i) required to be filed with the Commission by the Company, (ii) a "road show for an offering that is a written communication" within the meaning of Rule 433(d)(8)(i), whether or not required to be filed with the Commission pursuant to Rule 433(d)(5)(i) because it contains a description of the Securities or of the offering that does not reflect the final terms, in each case in the form filed or required to be filed with the Commission or, if not required to be filed, in the form retained in the Company's records pursuant to Rule 433(g).

"Issuer General Use Free Writing Prospectus" means any Issuer Free Writing Prospectus that is intended for general distribution to prospective investors (other than a "*bona fide* electronic road show," as defined in Rule 433 (a "<u>Bona Fide Electronic Road Show</u>")), as evidenced by its being specified in <u>Schedule B-2</u> hereto.

"Issuer Limited Use Free Writing Prospectus" means any Issuer Free Writing Prospectus that is not an Issuer General Use Free Writing Prospectus.

All references in this Agreement to financial statements and schedules and other information which is "contained," "included" or "stated" (or other references of like import) in the Registration Statement, any preliminary prospectus or the Prospectus shall be deemed to include all such financial statements and schedules and other information incorporated or deemed incorporated by reference in the Registration Statement, any preliminary prospectus or the Prospectus, as the case may be, prior to the execution and delivery of this Agreement; and all references in this Agreement to amendments or supplements to the Registration Statement, any preliminary prospectus or the Prospectus shall be deemed to include the filing of any document under the Securities Exchange Act of 1934, as amended (the "<u>1934 Act</u>"), and the rules and regulations promulgated thereunder (the "<u>1934 Act Regulations</u>"), incorporated or deemed to be incorporated by reference in the Registration Statement, such preliminary prospectus or the Prospectus or the Prospectus or deemed to a deemed to be incorporated by reference in the Registration statement.

# SECTION 1. <u>Representations and Warranties</u>.

(a) *Representations and Warranties by the Company.* The Company represents and warrants to each Underwriter as of the date hereof, the Applicable Time, the Closing Time (as defined below) and any Date of Delivery (as defined below), and agrees with each Underwriter, as follows:

(i) <u>Registration Statement and Prospectuses</u>. The Company meets the requirements for use of Form S-3 under the 1933 Act. Each of the Registration Statements and any amendment thereto has become effective under the 1933 Act. No stop order suspending the effectiveness of a Registration Statement or any post-effective amendment thereto has been issued by the Commission under the 1933 Act, no order preventing or suspending the use of any preliminary prospectus or the Prospectus has been issued by the Commission and no proceedings for any of those purposes have been instituted by the Commission or are pending or, to the Company's knowledge, contemplated by the Commission. The Company has complied with each request (if any) from the Commission for additional information.

Each of the Registration Statements and any post-effective amendment thereto, at the time of its effectiveness and at each deemed effective date with respect to the Underwriters pursuant to Rule 430B(f) (2) under the 1933 Act Regulations, complied in all material respects with the requirements of the 1933 Act and the 1933 Act Regulations. Each preliminary prospectus, the Prospectus and any amendment or supplement thereto, at the time each was filed with the Commission, complied in all material respects with the requirements of the 1933 Act and the 1933 Act and the 1933 Act Regulations. Each preliminary prospectus and any amendment or the Underwriters for use in connection with the offering and the Prospectus was or will be identical to the electronically transmitted copies thereof filed with the Commission pursuant to EDGAR, except to the extent permitted by Regulation S-T.

The documents incorporated or deemed to be incorporated by reference in the Registration Statements and the Prospectus, when they became effective or at the time they were or hereafter are filed with the Commission, complied and will comply in all material respects with the requirements of the 1934 Act and the 1934 Act Regulations.

The Registration Statements, any preliminary prospectus and the Prospectus, and the filing of the Registration Statements, any preliminary prospectus and the Prospectus with the Commission have been duly authorized by and on behalf of the Company, and each Registration Statement has been duly executed pursuant to such authorization.

(ii) <u>Accurate Disclosure</u>. Neither the Registration Statements nor any amendment thereto, at their respective effective time, at the Closing Time or at any Date of Delivery, contained,

contains or will contain an untrue statement of a material fact or omitted, omits or will omit to state a material fact required to be stated therein or necessary to make the statements therein not misleading. As of the Applicable Time, neither (A) the General Disclosure Package nor (B) any individual Issuer Limited Use Free Writing Prospectus, when considered together with the General Disclosure Package, included, includes or will include an untrue statement of a material fact or omitted, omits or will omit to state a material fact necessary in order to make the statements therein, in the light of the circumstances under which they were made, not misleading. Neither the Prospectus nor any amendment or supplement thereto (including any prospectus wrapper), as of its issue date, at the time of any filing with the Commission pursuant to Rule 424(b), at the Closing Time or at any Date of Delivery, included, includes or will include an untrue statement of a material fact or omitted, omits or will omit to state a material fact necessary in order to make the statements therein, in the light of the circumstances under which they were made, not misleading. The documents incorporated or deemed to be incorporated by reference in each Registration Statement, the General Disclosure Package and the Prospectus, at the time such Registration Statement became effective or when such documents incorporated by reference were filed with the Commission, as the case may be, when read together with the other information in such Registration Statement, the General Disclosure Package or the Prospectus, as the case may be, did not and will not include an untrue statement of a material fact or omit to state a material fact required to be stated therein or necessary to make the statements therein not misleading.

The representations and warranties in this subsection shall not apply to statements in or omissions from a Registration Statement (or any amendment thereto), the General Disclosure Package or the Prospectus (or any amendment or supplement thereto, including any prospectus wrapper) made in reliance upon and in conformity with written information furnished to the Company by (i) any Underwriter through the Representative expressly for use therein (the "<u>Underwriter Information</u>") or (ii) the Selling Shareholder Information (as defined below). For purposes of this Agreement, the only information so furnished as "Underwriter Information" shall be understood and agreed to consist of the following information in the Prospectus furnished on behalf of each Underwriter: the concession and reallowance figures appearing in the paragraph under the caption "Underwriting—Commissions and Discounts" and the information contained in the second paragraph under the heading "Underwriting—Price Stabilization, Short Positions and Bids" and the information under the heading "Underwriting—Electronic Distributions."

(iii) <u>Issuer Free Writing Prospectuses</u>. No Issuer Free Writing Prospectus conflicts or will conflict with the information contained in a Registration Statement or the Prospectus, including any document incorporated by reference therein, and any preliminary or other prospectus deemed to be a part thereof that has not been superseded or modified. No filing of any "road show" (as defined in Rule 433(h)) is required in connection with the offering of the Securities. Any Issuer Free Writing Prospectus that the Company is required to file pursuant to Rule 433(d) under the Securities Act has been, or will be, filed with the Commission in accordance with the requirements of the 1933 Act and the 1933 Act Regulations. Each Issuer Free Writing Prospectus that the Company has filed, or is required to file, pursuant to Rule 433(d) under the 1933 Act or that was prepared by or behalf of or used or referred to by the Company complies or will comply in all material respects with the requirements of the 1933 Act and the 1933

(iv) <u>Company Not Ineligible Issuer</u>. At the time of filing each Registration Statement and any post-effective amendments thereto, at the earliest time thereafter that the Company or another offering participant made a *bona fide* offer (within the meaning of Rule 164(h)(2) of the 1933 Act Regulations) of the Securities and at the date hereof, the Company was not and is not an "ineligible issuer," as defined in Rule 405, without taking account of any determination by the Commission pursuant to Rule 405 that it is not necessary that the Company be considered an ineligible issuer.

(v) <u>Independent Accountants</u>. The accountants who certified the financial statements and supporting schedules included in each Registration Statement, the General Disclosure Package and the Prospectus are independent public accountants as required by the 1933 Act, the 1933 Act Regulations, the 1934 Act, the 1934 Act Regulations and the Public Company Accounting Oversight Board (United States).

Financial Statements; Non-GAAP Financial Measures. The financial statements included (vi) in, or incorporated by reference into, each Registration Statement, the General Disclosure Package and the Prospectus, together with the related schedules and notes, comply as to form in all material respects with Regulation S-X under the 1933 Act and present fairly, in all material respects, the financial position of the Company and its consolidated Subsidiaries (as defined below) at the dates indicated and the statement of operations, stockholders' equity and cash flows of the Company and its consolidated Subsidiaries for the periods specified; said financial statements have been prepared in conformity with U.S. generally accepted accounting principles ("GAAP") applied on a consistent basis throughout the periods involved, except, in the case of unaudited, interim financial statements, subject to normal year-end adjustments and the exclusion of certain footnotes. The supporting schedules, if any, present fairly, in all material respects, in accordance with GAAP the information required to be stated therein. The selected financial data and the summary financial information included in each Registration Statement, the General Disclosure Package and the Prospectus present fairly, in all material respects, the information shown therein and have been compiled on a basis consistent with that of the audited financial statements included therein. Except as included therein, no historical or pro forma financial statements or supporting schedules are required to be included in a Registration Statement, the General Disclosure Package or the Prospectus under the 1933 Act or the 1933 Act Regulations. All disclosures contained in the Registration Statements, the General Disclosure Package or the Prospectus, or incorporated by reference therein, regarding "non-GAAP financial measures" (as such term is defined by the rules and regulations of the Commission) comply with Regulation G of the 1934 Act, and Item 10 of Regulation S-K, to the extent applicable. The interactive data in eXtensible Business Reporting Language incorporated by reference in the Registration Statement, the General Disclosure Package and the Prospectus fairly presents the information called for in all material respects and has been prepared in accordance with the Commission's rules and guidelines applicable thereto.

(vii) <u>Compliance with the Sarbanes-Oxley Act of 2002</u>. There is and has been no failure on the part of the Company or any of the Company's directors or officers, in their capacities as such, to comply in all material respects with any provision of the Sarbanes-Oxley Act of 2002 and the rules and regulations promulgated in connection therewith, including Section 402 related to loans and Sections 302 and 906 related to certifications.

(viii) <u>No Material Adverse Change in Business</u>. Except as otherwise stated therein, since the respective dates as of which information is given in the Registration Statements, the General Disclosure Package or the Prospectus, (A) there has been no material adverse change in the condition, financial or otherwise, or in the earnings, business affairs or business prospects of the Company and its Subsidiaries considered as one enterprise, whether or not arising in the

ordinary course of business (a "<u>Material Adverse Effect</u>"), (B) there have been no transactions entered into by the Company or its Subsidiaries, other than those in the ordinary course of business, which are material with respect to the Company and its Subsidiaries considered as one enterprise, (C) there have been no material liabilities or obligations, direct or contingent, entered into by the Company or any of its Subsidiaries and (D) there has been no dividend or distribution of any kind declared, paid or made by the Company on any class of its capital stock.

(ix) <u>Good Standing of the Company</u>. The Company has been duly organized and is validly existing as a corporation in good standing under the laws of the State of Minnesota and has corporate power and authority to own, lease and operate its properties and to conduct its business as described in the Registration Statements, the General Disclosure Package and the Prospectus and to enter into and perform its obligations under this Agreement; and the Company is duly qualified as a foreign corporation to transact business and is in good standing in each other jurisdiction in which such qualification is required, whether by reason of the ownership or leasing of property or the conduct of business, except where the failure to be so qualified or to be in good standing would not result in a Material Adverse Effect.

(x) <u>Good Standing of the Company's Subsidiaries</u>. Each subsidiary of the Company (collectively, the "<u>Subsidiaries</u>") has been duly organized and is validly existing in good standing under the laws of the jurisdiction of its incorporation or organization, has corporate or similar power and authority to own, lease and operate its properties and to conduct its business as described in the Registration Statement, the General Disclosure Package and the Prospectus and is duly qualified to transact business and is in good standing in each jurisdiction in which such qualification is required, whether by reason of the ownership or leasing of property or the conduct of business, except where the failure to be so qualified or to be in good standing would not result in a Material Adverse Effect. Except as otherwise disclosed in the Registration Statement, the General Disclosure Package and the Prospectus, all of the issued and outstanding capital stock of each Subsidiary has been duly authorized and validly issued, is fully paid and non-assessable and is owned by the Company, directly or through Subsidiaries, free and clear of any security interest, mortgage, pledge, lien, encumbrance, claim or equity. None of the outstanding shares of capital stock of any Subsidiary was issued in violation of the preemptive or similar rights of any securityholder of such Subsidiary. The only Subsidiaries are the entities listed on Exhibit 21 to the Registration Statement.

(x i) <u>Capitalization</u>. The authorized, issued and outstanding shares of capital stock of the Company are as set forth in the Registration Statements, the General Disclosure Package and the Prospectus in the column entitled "Actual" under the caption "Capitalization" (except for subsequent issuances, if any, pursuant to (A) this Agreement, (B) reservations, agreements or employee benefit plans referred to in the Registration Statements, the General Disclosure Package and the Prospectus or (C) the conversion of convertible securities or exercise of options referred to in the Registration Statements, the General Disclosure Package and the Prospectus). The outstanding shares of capital stock of the Company, including the shares to be purchased by the Underwriters from the Selling Shareholder, have been duly authorized and are validly issued, fully paid and non-assessable. None of the outstanding shares of capital stock of the Selling Shareholder, was issued in violation of the preemptive or other similar rights of any securityholder of the Company.

(xii) <u>Authorization of Agreement</u>. This Agreement has been duly authorized, executed and delivered by the Company.

(xiii) <u>Authorization and Description of Securities</u>. The Securities to be purchased by the Underwriters from the Company have been duly authorized for issuance and sale to the

Underwriters pursuant to this Agreement and, when issued and delivered by the Company pursuant to this Agreement against payment of the consideration set forth herein, will be validly issued and fully paid and non-assessable; and the issuance of the Securities is not subject to the preemptive or other similar rights of any securityholder of the Company. The Common Stock conforms in all material respects to all statements relating thereto contained in the Registration Statements, the General Disclosure Package and the Prospectus and such description conforms in all material respects to the rights set forth in the instruments defining the same. No holder of Securities will be subject to personal liability by reason of being such a holder.

(xiv) <u>Registration Rights</u>. There are no persons with registration rights or other similar rights to have any securities registered for sale pursuant to the Registration Statements or otherwise registered for sale or sold by the Company under the 1933 Act pursuant to this Agreement, other than those rights that have been disclosed in the Registration Statements, the General Disclosure Package and the Prospectus and those rights that have been waived in connection with the offering contemplated by this Agreement.

(xv)Absence of Violations, Defaults and Conflicts. Neither the Company nor any Subsidiary is (A) in violation of its charter, by-laws or similar organizational document, (B) in default in the performance or observance of any obligation, agreement, covenant or condition contained in any contract, indenture, mortgage, deed of trust, loan or credit agreement, note, lease or other agreement or instrument to which the Company or any Subsidiary is a party or by which either of them may be bound or to which any of the properties or assets of the Company or any Subsidiary is subject (collectively, "Agreements and Instruments"), except for such defaults that would not, singly or in the aggregate, reasonably be expected to result in a Material Adverse Effect, or (C) in violation of any law, statute, rule, regulation, judgment, order, writ or decree of any arbitrator, court, governmental body, regulatory body, administrative agency or other authority, body or agency having jurisdiction over the Company or its Subsidiaries or any of their respective properties, assets or operations (each, a "Governmental Entity"), except for such violations that would not, singly or in the aggregate, reasonably be expected to result in a Material Adverse Effect. The execution, delivery and performance of this Agreement and the consummation of the transactions contemplated herein and in the Registration Statements, the General Disclosure Package and the Prospectus (including the issuance and sale of the Securities and the use of the proceeds from the sale of the Securities as described therein under the caption "Use of Proceeds") and compliance by the Company with its obligations hereunder have been duly authorized by all necessary corporate action and do not and will not, whether with or without the giving of notice or passage of time or both, conflict with or constitute a breach of, or default or Repayment Event (as defined below) under, or result in the creation or imposition of any lien, charge or encumbrance upon any properties or assets of the Company or its Subsidiaries pursuant to, the Agreements and Instruments (except for such conflicts, breaches, defaults or Repayment Events or liens, charges or encumbrances that would not, singly or in the aggregate, reasonably be expected to result in a Material Adverse Effect), nor will such action result in any violation of the provisions of the charter, by-laws or similar organizational document of the Company or its Subsidiaries or any law, statute, rule, regulation, judgment, order, writ or decree of any Governmental Entity. As used herein, a "Repayment Event" means any event or condition which gives the holder of any note, debenture or other evidence of indebtedness (or any person acting on such holder's behalf) the right to require the repurchase, redemption or repayment of all or a portion of such indebtedness by the Company or its Subsidiaries.

(xvi) <u>Listing</u>. The Securities have been approved for listing on the Nasdaq Capital Market, subject to notice of issuance.

(xvii) <u>Absence of Labor Dispute</u>. No labor dispute with the employees of the Company or its Subsidiaries exists or, to the knowledge of the Company, is imminent, and the Company is not aware of any existing or imminent labor disturbance by the employees of any of its or its Subsidiaries' principal suppliers, manufacturers, customers or contractors, which, in either case, would result in a Material Adverse Effect.

(xviii) <u>Absence of Proceedings</u>. Except as disclosed in the Registration Statements, the General Disclosure Package and the Prospectus, there is no action, suit, proceeding, inquiry or investigation before or brought by any Governmental Entity (including, without limitation, any action, suit proceeding, inquiry or investigation before or brought by the U.S. Food and Drug Administration (the "<u>FDA</u>")) now pending or, to the knowledge of the Company, threatened, against or affecting the Company or its Subsidiaries, which would reasonably be expected to result in a Material Adverse Effect, or which would reasonably be expected to materially and adversely affect their respective properties or assets or the consummation of the transactions contemplated in this Agreement or the performance by the Company of its obligations hereunder; and the aggregate of all pending legal or governmental proceedings to which the Subsidiary is a party or of which any of their respective properties or assets is the subject which are not described in the Registration Statement, the General Disclosure Package and the Prospectus, including ordinary routine litigation incidental to the business, would not reasonably be expected to result in a Material Adverse Effect.

(xix) <u>Accuracy of Exhibits</u>. There are no contracts or documents which are required to be described in the Registration Statements, the General Disclosure Package or the Prospectus or to be filed as exhibits to the Registration Statements which have not been so described and filed as required.

(xx) <u>Absence of Further Requirements</u>. No filing with, or authorization, approval, consent, license, order, registration, qualification or decree of, any Governmental Entity is necessary or required for the performance by the Company of its obligations hereunder, in connection with the offering, issuance or sale of the Securities hereunder or the consummation of the transactions contemplated by this Agreement, except such as have been already obtained or as may be required under the 1933 Act, the 1933 Act Regulations, the rules of the Nasdaq Stock Market LLC, state securities laws or the rules of the Financial Industry Regulatory Authority, Inc. ("<u>FINRA</u>").

(x x i) <u>Possession of Licenses and Permits</u>. The Company and its Subsidiaries possess such permits, licenses, approvals, consents and other authorizations (collectively, "<u>Governmental Licenses</u>") issued by the appropriate Governmental Entities necessary to conduct the business now operated by them, except where the failure so to possess would not, singly or in the aggregate, reasonably be expected to result in a Material Adverse Effect. The Company and its Subsidiaries are in compliance with the terms and conditions of all Governmental Licenses, except where the failure so to comply would not, singly or in the aggregate, reasonably be expected to result in a Material Adverse Effect. All of the Governmental Licenses are valid and in full force and effect, except where the invalidity of such Governmental Licenses to be in full force and effect would not, singly or in the aggregate, reasonably be expected to result in a Material Adverse Effect. Neither the Company nor its Subsidiaries have received any notice of proceedings relating to the revocation or modification of any Governmental Licenses which, singly or in the aggregate, if the subject of an unfavorable decision, ruling or finding, would reasonably be expected to result in a Material Adverse Effect.

(xxii) <u>Title to Property</u>. The Company and its Subsidiaries have good and marketable title to all real property owned by them and good title to all other properties owned by them, in each case, free and clear of all mortgages, pledges, liens, security interests, claims, restrictions or encumbrances of any kind except such as (A) are described in each Registration Statement, the General Disclosure Package and the Prospectus or (B) do not, singly or in the aggregate, materially affect the value of such property and do not materially interfere with the use made and proposed to be made of such property by the Company or its Subsidiaries; and all of the leases and subleases material to the business of the Company and its Subsidiaries, considered as one enterprise, and under which the Company or its Subsidiaries holds properties described in the Registration Statements, the General Disclosure Package or the Prospectus, are in full force and effect, and neither the Company nor any such Subsidiary has any notice of any material claim of any sort that has been asserted by anyone adverse to the rights of the Company or any Subsidiary under any of the leases or subleases mentioned above, or affecting or questioning the rights of the Company or such Subsidiary to the continued possession of the leased or subleased premises under any such lease or sublease.

Intellectual Property Rights. Except as described in the Registration Statement, the (xxiii) General Disclosure Package and the Prospectus, the Company owns or has valid, binding and enforceable licenses or other rights under the patents, patent applications, licenses, inventions, copyrights, know how (including trade secrets and other unpatented and/or unpatentable proprietary or confidential information, systems or procedures), trademarks, service marks, trade names or other intellectual property necessary for, or used in the conduct, or the proposed conduct, of the business of the Company in the manner described in the Registration Statement, the General Disclosure Package and the Prospectus (collectively, the "Intellectual Property"); the patents, trademarks, and copyrights, if any, included within the Intellectual Property are valid and enforceable, and have been duly and properly filed and maintained; other than as disclosed in the Registration Statement, the General Disclosure Package and the Prospectus, (A) the Company is not obligated to pay a material royalty, grant a license to, or provide other material consideration to any third party in connection with the Intellectual Property, (B) the Company has not received any notice of any claim of infringement, misappropriation or conflict with any patent, copyright, know how, trademark, service mark, trade name or other proprietary rights of others with respect to any of the Company's products, product candidates, services, processes or Intellectual Property, (C) there is no pending or, to the Company's knowledge, threatened action, suit, proceeding or claim asserting that the Company infringes or otherwise violates, or would, upon the commercialization of any product, product candidate, service, or process described in the Registration Statement, the General Disclosure Package or the Prospectus as under development, infringe, misappropriate or violate any patent, copyright, know how, trademark, service mark, trade name or other proprietary rights of others, and the Company is unaware of any facts which would form a reasonable basis for any such action, suit, proceeding or claim, (D) none of the technology employed by the Company has been obtained or is being used by the Company in material violation of any contractual obligation binding on the Company or, to the Company's knowledge, upon any of its officers, directors or employees or otherwise in violation of the rights of any persons, (E) no third party has any ownership right in or to any Intellectual Property that is owned by the Company, other than any co-owner of any patent constituting Intellectual Property who is listed on the records of the U.S. Patent and Trademark Office (the "USPTO") and any co-owner of any patent application constituting Intellectual Property who is named in such patent application, and, to the knowledge of the Company, no third party has any ownership right in or to any Intellectual Property in any field of use that is exclusively licensed to the Company, other than any customary reversionary rights of third-party licensors with respect to such Intellectual Property, (F) there is no material infringement by third parties of any Intellectual Property, (G) there is no pending or, to the Company's knowledge, threatened action, suit, proceeding or claim by others challenging the

Company's ownership of, or rights in or to, any Intellectual Property and the Company is unaware of any facts which would form a reasonable basis for any such action, suit, proceeding or claim, and (H) there is no pending or, to the Company's knowledge, threatened action, suit, proceeding or claim by others challenging the validity, enforceability or scope of any Intellectual Property, and the Company is unaware of any facts which would form a reasonable basis for any such action, suit, proceeding or claim. The Company is in compliance with the terms of each agreement pursuant to which Intellectual Property has been licensed to the Company is in or has ever been in violation in any material respect of any term of any employment contract, patent disclosure agreement, invention assignment agreement, non-competition agreement, non-solicitation agreement, non-disclosure agreement or any restrictive covenant to or with a former employer where the basis of such violation relates to such employee's employment with the Company, or actions undertaken by the employee while employed with the Company.

(x x i v) Patents and Patent Applications. To the knowledge of the Company, the parties prosecuting the patents and patent applications within the Intellectual Property have complied with their duty of candor and disclosure to the USPTO, and in all foreign offices having a similar requirement, in connection with such patents and patent applications; and the Company is not aware of any facts required to be disclosed to such office that were not disclosed tosuch office and which would preclude the grant of a patent in connection with any such application or would reasonably be expected to form the basis of a finding of invalidity or unenforceability with respect to any patents that have issued with respect to such applications.

FDA Compliance. Except as described in each Registration Statement, the General  $(\mathbf{x} \mathbf{x} \mathbf{v})$ Disclosure Package and the Prospectus, the Company: (A) is and for the previous five (5) years has been in material compliance with all statutes, rules or regulations of the FDA and other comparable Governmental Entities applicable to the ownership, testing, development, manufacture, packaging, processing, use, distribution, marketing, labeling, promotion, sale, offer for sale, storage, import, export or disposal of any product under development, manufactured. marketed or distributed by the Company ("Applicable Laws"); (B) has not received any FDA Form 483, notice of adverse finding, warning letter, untitled letter or other correspondence or notice from the FDA or any Governmental Authority alleging or asserting material noncompliance with any Applicable Laws or any licenses, certificates, approvals, clearances, exemptions, authorizations, permits, FDA's letter stating the agency's intent to exercise enforcement discretion for the Avance Nerve Graft assuming certain conditions are met, and supplements or amendments thereto required by any such Applicable Laws ("Authorizations"); (C) possesses all material Authorizations and such Authorizations are valid and in full force and effect and the Company is not in material violation of any term of any such Authorizations; (D) has not received notice of any claim, action, suit, proceeding, hearing, enforcement, investigation, arbitration or other action from the FDA or any Governmental Authority or third party alleging that any product operation or activity is in material violation of any Applicable Laws or Authorizations and has no knowledge that the FDA or any Governmental Authority or third party is considering any such claim, litigation, arbitration, action, suit, investigation or proceeding; (E) has not received notice that the FDA or any Governmental Authority has taken, is taking or intends to take action to limit, suspend, modify or revoke any material Authorizations and has no knowledge that the FDA or any Governmental Authority is considering such action; and (F) has filed, obtained, maintained or submitted all material reports, documents, forms, notices, applications, records, claims, submissions and supplements or amendments as required by any Applicable Laws or Authorizations and that all such reports, documents, forms, notices, applications, records, claims, submissions and supplements or amendments were materially complete and correct on the date filed (or were corrected or supplemented by a subsequent submission).

(xxvi) <u>Clinical Trials</u>. The clinical, pre-clinical and other studies and tests conducted by or on behalf of or sponsored by the Company were and, if still pending, are being conducted in all material respects in accordance with standard medical and scientific research procedures and all Applicable Laws, including, but not limited to, the Federal Food, Drug and Cosmetic Act and its applicable implementing regulations at 21 C.F.R. Parts 50, 54, 56, 58, and 312. No investigational new drug application filed by or on behalf of the Company with the FDA has been terminated or suspended by the FDA or placed on clinical hold (without subsequent resolution), and neither the FDA nor any other Regulatory Authority has commenced, or, to the knowledge of the Company, threatened to initiate any action to terminate, delay or suspend any proposed or ongoing clinical investigation conducted or proposed to be conducted by or on behalf of the Company.

Compliance with Health Care Laws. Except as described in each of the Registration (xxvii) Statement, the General Disclosure Package and the Prospectus, the Company has operated and currently is in compliance with all applicable health care laws, rules and regulations (except where such failure to operate or non-compliance would not, singly or in the aggregate, result in a Material Adverse Effect), including, without limitation, (i) the Federal, Food, Drug and Cosmetic Act (21 U.S.C. § 301 et seq.); (ii) the Public Health Service Act (42 U.S.C. § 201 et seq.); (iii) all applicable federal, state, local and all applicable foreign healthcare related fraud and abuse laws, including, without limitation, the federal Antikickback Statute (42 U.S.C. § 1320a-7b(b)), the U.S. Physician Payments Sunshine Act (42 U.S.C. § 1320a-7h), the civil False Claims Act (31 U.S.C. §§ 3729 et seq.), the criminal False Claims Law (42 U.S.C. § 1320a-7b(a)), all criminal laws relating to healthcare fraud and abuse, including but not limited to 18 U.S.C. Sections 286 and 287, the healthcare fraud criminal provisions under the U.S. Health Insurance Portability and Accountability Act of 1996 ("HIPAA") (42 U.S.C. Section 1320d et seq.), the exclusion laws (42 U.S.C. § 1320a-7), and the civil monetary penalties law (42 U.S.C. § 1320a-7a); (iv) the Medicare statute (Title XVIII of the Social Security Act); (iv) the Medicaid statute (Title XIX of the Social Security Act); (v) HIPAA, as amended by the Health Information Technology for Economic Clinical Health Act (42 U.S.C. Section 17921 et seq.); (vi) the regulations promulgated pursuant to such laws; and (viii) any other similar local, state, federal, or foreign laws (collectively, the "Health Care Neither the Company nor any of its officers, directors, employees or, to the Company's <u>Laws</u>"). knowledge, agents, have engaged in activities which are, as applicable, cause for false claims liability, civil penalties, or mandatory or permissive exclusion from Medicare, Medicaid, or any other state or federal healthcare program. The Company has not received written notice or other correspondence of any claim, action, suit, audit, survey, proceeding, hearing, enforcement, investigation, arbitration or other action ("Action") from any court or arbitrator or governmental or regulatory authority or third party alleging that any product operation or activity is in violation of any Health Care Laws, and, to the Company's knowledge, no such claim, action, suit, proceeding, hearing, enforcement, investigation, arbitration or other action is threatened. The Company is not a party to and does not have any ongoing reporting obligations pursuant to any corporate integrity agreement, deferred prosecution agreement, monitoring agreement, consent decree, settlement order, plan of correction or similar agreement imposed by any governmental or regulatory authority. Additionally, neither the Company nor any of its employees, officers or directors, has been excluded, suspended, debarred from or otherwise ineligible for participation in any U.S. state or federal health care program or human clinical research or, to the knowledge of the Company, is subject to a governmental inquiry, investigation, proceeding, or other similar action that could reasonably be expected to result in debarment, suspension, ineligibility or exclusion.

(xxviii) <u>Environmental Laws</u>. Except as described in each Registration Statement, the General Disclosure Package and the Prospectus or would not, singly or in the aggregate, reasonably be expected to result in a Material Adverse Effect, (A) neither the Company nor any Subsidiary is in violation of any applicable federal, state, local or foreign statute, law, rule, regulation, ordinance,

code, policy or rule of common law or any judicial or administrative interpretation thereof, including any judicial or administrative order, consent, decree or judgment, relating to pollution or protection of human health, the environment (including, without limitation, ambient air, surface water, groundwater, land surface or subsurface strata) or wildlife, including, without limitation, laws and regulations relating to the release or threatened release of chemicals, pollutants, contaminants, wastes, toxic substances, hazardous substances, petroleum or petroleum products, asbestos-containing materials or mold (collectively, "Hazardous Materials") or to the manufacture, processing, distribution, use, treatment, storage, disposal, transport or handling of Hazardous Materials (collectively, "Environmental Laws"), (B) the Company and have all permits, authorizations and approvals required under any applicable its Subsidiaries Environmental Laws and are each in compliance with their requirements, (C) there are no pending or, to the knowledge of the Company threatened, administrative, regulatory or judicial actions, suits, demands, demand letters, claims, liens, notices of noncompliance or violation, investigation or proceedings relating to any Environmental Law against the Company or any Subsidiary and (D) to the Company's knowledge, there are no events or circumstances that would reasonably be expected to form the basis of an order for clean-up or remediation, or an action, suit or proceeding by any private party or Governmental Entity, against or affecting the Company or any Subsidiary relating to Hazardous Materials or any Environmental Laws.

Accounting Controls and Disclosure Controls. Other than as disclosed in the Company's (xxix) annual report on Form 10-K for the year ended December 31, 2016, the Company and each of its Subsidiaries maintain effective internal control over financial reporting (as defined under Rule 13a-15 and 15d-15 under the rules and regulations of the Commission under the 1934 Act Regulations) and a system of internal accounting controls sufficient to provide reasonable assurances that (A) transactions are executed in accordance with management's general or specific authorization; (B) transactions are recorded as necessary to permit preparation of financial statements in conformity with GAAP and to maintain accountability for assets; (C) access to assets is permitted only in accordance with management's general or specific authorization; (D) the recorded accountability for assets is compared with the existing assets at reasonable intervals and appropriate action is taken with respect to any differences; and (E) the interactive data in eXtensible Business Reporting Language incorporated by reference in the Registration Statement, the General Disclosure Package and the Prospectus fairly presents the information called for in all material respects and is prepared in accordance with the Commission's rules and guidelines applicable thereto. Except as described in each Registration Statement, the General Disclosure Package and the Prospectus (and other than as disclosed in the Company's annual report on Form 10-K for the year ended December 31, 2016), since the end of the Company's most recent audited fiscal year, there has been (1) no material weakness in the Company's internal control over financial reporting (whether or not remediated) and (2) no change in the Company's internal control over financial reporting that has materially adversely affected, or is reasonably likely to materially adversely affect, the Company's internal control over financial reporting. The Company and each of its Subsidiaries maintain an effective system of disclosure controls and procedures (as defined in Rule 13a-15 and Rule 15d-15 under the 1934 Act Regulations) that are designed to ensure that information required to be disclosed by the Company in the reports that it files or submits under the 1934 Act is recorded, processed, summarized and reported, within the time periods specified in the Commission's rules and forms, and is accumulated and communicated to the Company's management, including its principal executive officer or officers and principal financial officer or officers, as appropriate, to allow timely decisions regarding disclosure.

(xxx) <u>Tests and Preclinical and Clinical Trials</u>. The studies, tests and preclinical and clinical trials conducted by or, to the Company's knowledge, on behalf of the Company were and, if still ongoing, are being conducted in all material respects in accordance with experimental

protocols, procedures and controls pursuant to accepted professional scientific standards and all Authorizations and Applicable Laws, including, without limitation, the Federal Food, Drug and Cosmetic Act and the rules and regulations promulgated thereunder (collectively, "FFDCA"); the descriptions of the results of such studies, tests and trials contained in each Registration Statement, the General Disclosure Package and the Prospectus are, to the Company's knowledge, accurate and complete in all material respects and fairly present the data derived from such studies, tests and trials; except to the extent disclosed in each Registration Statement, the General Disclosure Package and the Prospectus, the Company is not aware of any studies, tests or trials, the results of which the Company believes reasonably call into question the study, test, or trial results described or referred to in a Registration Statement, the General Disclosure Package and the Prospectus when viewed in the context in which such results are described and the clinical state of development; and, except to the extent disclosed in each Registration Statement, the General Disclosure Package or the Prospectus, the Company has not received any notices or correspondence from the FDA or any Governmental Entity requiring the termination or suspension of any studies, tests or preclinical or clinical trials conducted by or on behalf of the Company, other than ordinary course communications with respect to modifications in connection with the design and implementation of such trials, copies of which communications have been made available to you.

Payment of Taxes. All United States federal income tax returns of the Company and its (xxxi) Subsidiaries required by law to be filed have been filed and all taxes shown by such returns or otherwise assessed, which are due and payable, have been paid, except assessments against which appeals have been or will be promptly taken and as to which adequate reserves have been provided in conformity with GAAP. The United States federal income tax returns of the Company through the fiscal year ended December 31, 2016 have been settled and no assessment in connection therewith has been made against the Company. The Company and its Subsidiaries have filed all other tax returns that are required to have been filed by them pursuant to applicable foreign, state, local or other law except insofar as the failure to file such returns would not result in a Material Adverse Effect, and have paid all taxes due pursuant to such returns or pursuant to any assessment received by the Company and its Subsidiaries, except for such taxes, if any, as are being contested in good faith and as to which adequate reserves have been established by the Company. The charges, accruals and reserves on the books of the Company in respect of any income and corporation tax liability for any years not finally determined are, in conformity with GAAP, adequate to meet any assessments or re-assessments for additional income tax for any years not finally determined, except to the extent of any inadequacy that would not result in a Material Adverse Effect.

(xxxii) <u>Insurance</u>. The Company and its Subsidiaries carry or are entitled to the benefits of insurance, with financially sound and reputable insurers, in such amounts and covering such risks as is generally maintained by companies of established repute engaged in the same or similar business, and all such insurance is in full force and effect. The Company has no reason to believe that it or its Subsidiaries will not be able (A) to renew its existing insurance coverage as and when such policies expire or (B) to obtain comparable coverage from similar institutions as may be necessary or appropriate to conduct its business as now conducted and at a cost that would not result in a Material Adverse Effect. Neither of the Company nor its Subsidiaries has been denied any insurance coverage which it has sought or for which it has applied.

(xxxiii) <u>Investment Company Act</u>. The Company is not required, and upon the issuance and sale of the Securities as herein contemplated and the application of the net proceeds therefrom as described in each Registration Statement, the General Disclosure Package and the Prospectus will not be required, to register as an "investment company" under the Investment Company Act of 1940, as amended (the "<u>1940</u><u>Act</u>").

(xxxiv) <u>Absence of Manipulation</u>. Neither the Company nor any controlled affiliate of the Company nor, to the Company's knowledge, any non-controlled affiliate of the Company has taken, nor will the Company or any affiliate take, directly or indirectly, any action which is designed, or would be expected, to cause or result in, or which constitutes, the stabilization or manipulation of the price of any security of the Company to facilitate the sale or resule of the Securities or to result in a violation of Regulation M under the 1934 Act.

(x x x v) Foreign Corrupt Practices Act. None of the Company, its Subsidiaries or, to the knowledge of the Company, any director, officer, agent, employee, affiliate or other person acting on behalf of the Company or its Subsidiaries is aware of or has taken any action, directly or indirectly, that would result in a violation by such persons of the Foreign Corrupt Practices Act of 1977, as amended, and the rules and regulations thereunder (the "FCPA"), including, without limitation, making use of the mails or any means or instrumentality of interstate commerce corruptly in furtherance of an offer, payment, promise to pay or authorization of the payment of any money, or other property, gift, promise to give, or authorization of the giving of anything of value to any "foreign official" (as such term is defined in the FCPA) or any foreign political party or official thereof or any candidate for foreign political office, in contravention of the FCPA and the Company has and, to the knowledge of the Company, its affiliates have conducted their businesses in compliance with the FCPA and have instituted and maintain policies and procedures designed to ensure, and which are reasonably expected to continue to ensure, continued compliance therewith.

(xxxvi) <u>Money Laundering Laws</u>. The operations of the Company and its Subsidiaries are and have been conducted at all times in compliance with applicable financial recordkeeping and reporting requirements of the Currency and Foreign Transactions Reporting Act of 1970, as amended, the money laundering statutes of all jurisdictions, the rules and regulations thereunder and any related or similar rules, regulations or guidelines, issued, administered or enforced by any Governmental Entity (collectively, the "<u>Money Laundering Laws</u>"); and no action, suit or proceeding by or before any Governmental Entity involving the Company or its Subsidiaries with respect to the Money Laundering Laws is pending or, to the knowledge of the Company, threatened.

(xxxvii) <u>OFAC</u>. None of the Company, its Subsidiaries or, to the knowledge of the Company, any director, officer, agent, employee, affiliate or representative of the Company or its Subsidiaries is an individual or entity ("Person") currently the subject or target of any sanctions administered or enforced by the United States Government, including, without limitation, the U.S. Department of the Treasury's Office of Foreign Assets Control, the United Nations Security Council, the European Union, Her Majesty's Treasury, or other relevant sanctions authority (collectively, "Sanctions"), nor is the Company located, organized or resident in a country or territory that is the subject of Sanctions; and the Company will not directly or indirectly use the proceeds of the sale of the Securities, or lend, contribute or otherwise make available such proceeds to any Subsidiary, joint venture partners or other Person, to fund any activities of or business with any Person, or in any country or territory, that, at the time of such funding, is the subject of Sanctions or in any other manner that will result in a violation by any Person (including any Person participating in the transaction, whether as underwriter, advisor, investor or otherwise) of Sanctions.

(xxxviii) <u>Lending Relationship</u>. Except as disclosed in each Registration Statement, the General Disclosure Package and the Prospectus, the Company (i) does not have any material lending or other relationship with any banking or lending affiliate of any Underwriter and (ii) does not intend to use any of the proceeds from the sale of the Securities to repay any outstanding debt owed to any affiliate of any Underwriter.

(xxxix) <u>Statistical and Market-Related Data</u>. Any statistical and market-related data included in the Registration Statements, the General Disclosure Package or the Prospectus are based on or derived from sources that the Company believes, after reasonable inquiry, to be reliable and accurate in all material respects and, to the extent required, the Company has obtained the written consent to the use of such data from such sources.

(x1) <u>Maintenance of Rating</u>. The Company has no debt securities or preferred stock that is rated by any "nationally recognized statistical rating organization" (as that term is defined by the Commission for purposes of Rule 436(g)(2) under the 1933 Act).

(x1i) <u>No Broker Fees</u>. Except as disclosed in the General Disclosure Package, there are no contracts, agreements or understandings between the Company and any person that would give rise to a valid claim against the Company or any Underwriter for a brokerage commission, finder's fee or other like payment in connection with the offering of the Securities contemplated hereby.

(b) *Representations and Warranties by the Selling Shareholder*. The Selling Shareholder represents and warrants to each Underwriter as of the date hereof, the Applicable Time, the Closing Time (as defined below) and any Date of Delivery (as defined below), and agrees with each Underwriter, as follows:

( i ) <u>Accurate Disclosure</u>. None of the information relating to the Selling Shareholder furnished in writing by or on behalf of the Selling Shareholder expressly for use in the Registration Statement, the General Disclosure Package, the Prospectus or any other Issuer Free Writing Prospectus or any amendment or supplement thereto includes any untrue statement of a material fact or omits to state a material fact necessary in order to make the statements therein, in the light of the circumstances under which they were made, not misleading, it being understood and agreed that the only such information furnished by or on behalf of the Selling Shareholder consists solely of the information relating to the Selling Shareholder Information"); the Selling Shareholder is not prompted to sell the Securities to be sold by the Selling Shareholder hereunder by any material non-public information concerning the Company or any subsidiary of the Company which is not set forth in the General Disclosure Package or the Prospectus.

(ii) <u>Authorization of this Agreement</u>. This Agreement has been duly authorized, executed and delivered by or on behalf of the Selling Shareholder.

(iii) <u>Noncontravention</u>. The execution, delivery and performance of this Agreement and the sale and delivery to the Underwriters of the Securities to be sold by the Selling Shareholder and the consummation of the transactions contemplated herein, do not and will not, conflict with or constitute a breach of, or default under, or result in the creation or imposition of any tax, lien, charge or encumbrance upon the Securities to be sold by the Selling Shareholder or any property or assets of the Selling Shareholder pursuant to any contract, indenture, mortgage, deed of trust, loan or credit agreement, note, license, lease or other agreement or instrument to which the Selling Shareholder is a party or by which the Selling Shareholder may be bound, or to which any of the property or assets of the Selling Shareholder is subject, nor will such action result in any violation of the provisions of the charter or by-laws or other organizational instrument of the Selling Shareholder, if applicable, or any applicable law, statute, rule, regulation, judgment, order, writ or decree of any government, government instrumentality or court, domestic or foreign, having jurisdiction over the Selling Shareholder or any of its properties, except in all cases described above as would not, individually or in the aggregate, reasonably be expected to materially impact the Selling Shareholder's ability to perform its obligations under this Agreement.

(iv) <u>Valid Title</u>. The Selling Shareholder has, and at the Closing Time will have, valid title to the Securities to be sold by the Selling Shareholder free and clear of all security interests, claims, liens, equities or other encumbrances.

Delivery of Securities. Upon payment of the purchase price for the Securities to be sold by (v) the Selling Shareholder pursuant to this Agreement, delivery of such Securities, as directed by the Underwriters, to Cede & Co. ("Cede") or such other nominee as may be designated by The Depository Trust Company ("DTC"), registration of such Securities to be sold by the Selling Shareholder in the name of Cede or such other nominee, and the crediting of such Securities on the books of DTC to securities accounts (within the meaning of Section 8-501(a) of the UCC) of the Underwriters (assuming that neither DTC nor any such Underwriter has notice of any "adverse claim," within the meaning of Section 8-105 of the Uniform Commercial Code then in effect in the State of New York ("UCC"), to such Securities), (A) under Section 8-501 of the UCC, the Underwriters will acquire a valid "security entitlement" in respect of such Securities and (B) no action based on any "adverse claim," within the meaning of Section 8-102 of the UCC, to such Securities may be asserted against the Underwriters with respect to such security entitlement; for purposes of this representation, the Selling Shareholder may assume that neither DTC nor any Underwriter has "notice of any adverse claim" to the Securities to be sold by the Selling Shareholder within the meaning of Sections 8-303(a)(2) and 8-105 of the UCC, and that when such payment, delivery (if necessary) and crediting occur, (I) such Securities will have been registered in the name of Cede or another nominee designated by DTC, in each case on the Company's share registry in accordance with its certificate of incorporation, bylaws and applicable law, (II) DTC will be registered as a "clearing corporation," within the meaning of Section 8-102 of the UCC, (III) appropriate entries to the accounts of the several Underwriters on the records of DTC will have been made pursuant to the UCC, (IV) to the extent DTC, or any other securities intermediary which acts as "clearing corporation" with respect to the Securities, maintains any "financial asset" (as defined in Section 8-102(a)(9) of the UCC) in a clearing corporation pursuant to Section 8-111 of the UCC, the rules of such clearing corporation may affect the rights of DTC or such securities intermediaries and the ownership interest of the Underwriters, (V) claims of creditors of DTC or any other securities intermediary or clearing corporation may be given priority to the extent set forth in Section 8-511(b) and 8-511(c) of the UCC and (VI) if at any time DTC or other securities intermediary does not have sufficient Securities to satisfy claims of all of its entitlement holders with respect thereto then all holders will share pro rata in the Securities then held by DTC or such securities intermediary.

(vi) <u>Absence of Manipulation</u>. The Selling Shareholder has not taken, and will not take, directly or indirectly, any action which is designed to or which has constituted or would be expected to cause or result in stabilization or manipulation of the price of any security of the Company to facilitate the sale or resale of the Securities.

(vii) <u>Absence of Further Requirements</u>. No filing with, or consent, approval, authorization, order, registration, qualification or decree of any arbitrator, court, governmental body, regulatory body, administrative agency or other authority, body or agency, domestic or foreign, is necessary or required for the performance by the Selling Shareholder of its obligations hereunder, or in connection with the sale and delivery of the Securities hereunder or the consummation of the transactions contemplated by this Agreement, except (a) such as have been already obtained or as may be required under the 1933 Act, the 1933 Act Regulations, the rules of the Nasdaq Capital Market, state securities or blue sky laws or the rules of FINRA or (b) such as would not, individually or in the aggregate, reasonably be expected to materially impact the Selling Shareholder's ability to perform its obligations under this Agreement.

(viii) <u>No Registration or Other Similar Rights</u>. The Selling Shareholder does not have any registration or other similar rights to have any equity or debt securities registered for sale by the Company under the Registration Statement or included in the offering contemplated by this Agreement other than those rights that have been disclosed in the Registration Statement, the General Disclosure Package and the Prospectus.

(ix) <u>No Free Writing Prospectuses</u>. The Selling Shareholder has not prepared or had prepared on its behalf or used or referred to, any "free writing prospectus" (as defined in Rule 405).

(x) <u>No Association with FINRA</u>. The Selling Shareholder is not (i) an owner of stock or other securities of a Participating FINRA Member, (ii) an Affiliate of a member firm of FINRA, (iii) an Associated Person of a Participating FINRA Member, (iv) a member of the Immediate Family of an Associated Person of a Participating FINRA Member, or (v) an Underwriter or Related Person with respect to the offer or sale of the Securities. All defined terms used in this paragraph that are not defined herein have the meaning set forth in the FINRA Rules and FINRA By-laws.

(c) *Officer's Certificates.* Any certificate signed by any officer of the Company or any of its Subsidiaries or by the Selling Shareholder delivered to the Representative or to counsel for the Underwriters pursuant to the provisions hereof shall be deemed a representation and warranty by the Company or the Selling Shareholder, as applicable, to each Underwriter as to the matters covered thereby.

# SECTION 2. Sale and Delivery to Underwriters; Closing

(a) *Initial Securities.* On the basis of the representations and warranties herein contained and subject to the terms and conditions herein set forth, the Company and the Selling Shareholder, severally and not jointly, agrees to sell to each Underwriter, severally and not jointly, and each Underwriter, severally and not jointly, agrees to purchase from the Company and the Selling Shareholder, at the price per share set forth in <u>Schedule A-1</u>, that proportion of the number of Initial Securities set forth in <u>Schedule A-2</u> opposite the name of the Company and the Selling Shareholder, as the case may be, which the number of Initial Securities set forth in <u>Schedule A-1</u> opposite the name of such Underwriter, plus any additional number of Initial Securities which such Underwriter may become obligated to purchase pursuant to the provisions of Section 10 hereof, bears to the total number of Initial Securities, subject, in each case, to such adjustments among the Underwriters as the Representative in its sole discretion shall make to eliminate any sales or purchases of fractional shares.

Option Securities. In addition, on the basis of the representations and warranties herein contained (b)and subject to the terms and conditions herein set forth, the Company and the Selling Shareholder, acting severally and not jointly, hereby grant an option to the Underwriters, severally and not jointly, to purchase up to an additional 255,000 shares of Common Stock, as set forth in Schedule A-2, at the price per share set forth in Schedule A-1, less an amount per share equal to any dividends or distributions declared by the Company and payable on the Initial Securities but not payable on the Option Securities. The option hereby granted may be exercised for 30 days after the date hereof and may be exercised in whole or in part at any time from time to time upon notice by the Representative to the Company and the Selling Shareholder setting forth the number of Option Securities as to which the several Underwriters are then exercising the option and the time and date of payment and delivery for such Option Securities. Any such time and date of delivery (a "Date of Delivery") shall be determined by the Representative, but any Date of Delivery after the Closing Time shall not be later than seven full business days nor earlier than two full business days after the exercise of said option, nor in any event prior to the Closing Time. If the option is exercised as to all or any portion of the Option Securities, (i) each of the Underwriters, acting severally and not jointly, will purchase that proportion of the total number of Option Securities then being purchased which the number

of Initial Securities set forth in <u>Schedule A-1</u> opposite the name of such Underwriter bears to the total number of Initial Securities, subject, in each case, to such adjustments as the Representative in its sole discretion shall make to eliminate any sales or purchases of fractional shares and (ii) the Option Securities being purchased shall be purchased by the Underwriters from the Company and the Selling Shareholder pro rata based on the proportion that the number of Initial Securities set forth in Schedule A-2 opposite the name of the Company and the Selling Shareholder, as the case may be, bears to the total number of Initial Securities, subject, in each case, to such adjustments as the Representative in its sole discretion shall make to eliminate any sales or purchases of fractional shares.

(c) *Payment.* Payment of the purchase price for, and delivery of certificates or security entitlements for, the Initial Securities shall be made at the offices of Latham & Watkins LLP, 650 Town Center, 20 <sup>th</sup> Floor, Costa Mesa, CA 92626 or at such other place as shall be agreed upon by the Representative, the Company and the Selling Shareholder, at 10:00 A.M. (New York City time) on the second (third, if the pricing occurs after 4:30 P.M. (New York City time) on any given day) business day after the date hereof (unless postponed in accordance with the provisions of Section 10 and 11), or such other time not later than ten business days after such date as shall be agreed upon by the Representative, the Company and the Selling Shareholder (such time and date of payment and delivery being herein called "<u>Closing Time</u>"). Delivery of the Initial Securities at the Closing Time shall be made through the facilities of The Depository Trust Company unless the Representative shall otherwise instruct.

In addition, in the event that any or all of the Option Securities are purchased by the Underwriters, payment of the purchase price for, and delivery of certificates or security entitlements for, such Option Securities shall be made at the above-mentioned offices, or at such other place as shall be agreed upon by the Representative and the Company, on each Date of Delivery as specified in the notice from the Representative to the Company. Delivery of the Option Securities on each such Date of Delivery shall be made through the facilities of The Depository Trust Company unless the Representative shall otherwise instruct.

Payment shall be made to the Company and the Selling Shareholder by wire transfer of immediately available funds to bank accounts designated by the Company and the Selling Shareholder, against delivery to the Representative for the respective accounts of the Underwriters of certificates or security entitlements for the Securities to be purchased by them. It is understood that each Underwriter has authorized the Representative, for its accounts, to accept delivery of, receipt for, and make payment of the purchase price for, the Initial Securities and the Option Securities, if any, which it has agreed to purchase. Leerink, individually and not as representative of the Underwriters, may (but shall not be obligated to) make payment of the purchase price for the Initial Securities or the Option Securities, if any, to be purchased by any Underwriter whose funds have not been received by the Closing Time or the relevant Date of Delivery, as the case may be, but such payment shall not relieve such Underwriter from its obligations hereunder.

SECTION 3. <u>Covenants of the Company and the Selling Shareholder</u>. The Company and the Selling Shareholder covenant, severally and not jointly, with each Underwriter as follows:

(a) Compliance with Securities Regulations and Commission Requests. The Company, subject to Section 3(b), will comply with the requirements of Rule 430B, and will notify the Representative as soon as practicable, and confirm the notice in writing, (i) when any post-effective amendment to any Registration Statement shall become effective or any amendment or supplement to the Prospectus shall have been filed, (ii) of the receipt of any comments from the Commission, (iii) of any request by the Commission for any amendment to any Registration Statement or any amendment or supplement to the Prospectus (including any document incorporated by reference therein) or for additional information, (iv) of the issuance by the Commission of any stop order suspending the effectiveness of any Registration Statement or any post-effective amendment or of any order preventing or suspending the use of any preliminary prospectus or the

Prospectus, or of the suspension of the qualification of the Securities for offering or sale in any jurisdiction, or of the initiation or threatening of any proceedings for any of such purposes or of any examination pursuant to Section 8(d) or 8(e) of the 1933 Act concerning the Registration Statement and (v) if the Company becomes the subject of a proceeding under Section 8A of the 1933 Act in connection with the offering of the Securities. The Company will effect all filings required under Rule 424(b), in the manner and within the time period required by Rule 424(b) (without reliance on Rule 424(b)(8)), and will take such steps as it deems necessary to ascertain promptly whether the form of prospectus transmitted for filing under Rule 424(b) was received for filing by the Commission and, in the event that it was not, it will promptly file such prospectus. The Company will make every reasonable effort to prevent the issuance of any stop order, prevention or suspension and, if any such order is issued, to obtain the lifting thereof at the earliest possible moment.

Continued Compliance with Securities Laws. The Company will comply with the 1933 Act, the (b) 1933 Act Regulations, the 1934 Act and the 1934 Act Regulations so as to permit the completion of the distribution of the Securities as contemplated in this Agreement and in the Registration Statements, the General Disclosure Package and the Prospectus. If at any time when a prospectus relating to the Securities is (or, but for the exception afforded by Rule 172 of the 1933 Act Regulations ("Rule 172"), would be) required by the 1933 Act to be delivered in connection with sales of the Securities, any event shall occur or condition shall exist as a result of which it is necessary, in the opinion of counsel for the Underwriters or for the Company, to (i) amend the Registration Statements in order that neither Registration Statement will include an untrue statement of a material fact or omit to state a material fact required to be stated therein or necessary to make the statements therein not misleading, (ii) amend or supplement the General Disclosure Package or the Prospectus in order that the General Disclosure Package or the Prospectus, as the case may be, will not include any untrue statement of a material fact or omit to state a material fact necessary in order to make the statements therein not misleading in the light of the circumstances existing at the time it is delivered to a purchaser or (iii) amend each Registration Statement or amend or supplement the General Disclosure Package or the Prospectus, as the case may be, in order to comply with the requirements of the 1933 Act or the 1933 Act Regulations, the Company will promptly (A) give the Representative notice of such event, (B) prepare any amendment or supplement as may be necessary to correct such statement or omission or to make each Registration Statement, the General Disclosure Package or the Prospectus comply with such requirements and, a reasonable amount of time prior to any proposed filing or use, furnish the Representative with copies of any such amendment or supplement and (C) file with the Commission any such amendment or supplement; provided that the Company shall not file or use any such amendment or supplement to which the Representative or counsel for the Underwriters shall reasonably object. The Company will furnish to the Underwriters such number of copies of such amendment or supplement as the Underwriters may reasonably request. The Company has given the Representative notice of any filings made pursuant to the 1934 Act or the 1934 Act Regulations within 48 hours prior to the Applicable Time; the Company will give the Representative notice of its intention to make any such filing from the Applicable Time to the Closing Time and will furnish the Representative with copies of any such documents a reasonable amount of time prior to such proposed filing, as the case may be, and will not file or use any such document to which the Representative or counsel for the Underwriters shall reasonably object.

( c ) Delivery of Registration Statements. The Company has furnished or will deliver to the Representative and counsel for the Underwriters, without charge, signed copies of each Registration Statement as originally filed and each amendment thereto (including exhibits filed therewith) and signed copies of all consents and certificates of experts, and will also deliver to the Representative, without charge, a conformed copy of each Registration Statement as originally filed and each amendment thereto (without exhibits) for each of the Underwriters. The copies of the Registration Statements and each amendment thereto furnished to the Underwriters will be identical to the electronically transmitted copies thereof filed with the Commission pursuant to EDGAR, except to the extent permitted by Regulation S-T.

(d) Delivery of Prospectuses. The Company has delivered to each Underwriter, without charge, as many copies of each preliminary prospectus as such Underwriter reasonably requested, and the Company hereby consents to the use of such copies for purposes permitted by the 1933 Act. The Company will furnish to each Underwriter, without charge, during the period when a prospectus relating to the Securities is (or, but for the exception afforded by Rule 172, would be) required to be delivered under the 1933 Act, such number of copies of the Prospectus (as amended or supplemented) as such Underwriter may reasonably request. The Prospectus and any amendments or supplements thereto furnished to the Underwriters will be identical to the electronically transmitted copies thereof filed with the Commission pursuant to EDGAR, except to the extent permitted by Regulation S-T.

(e) Blue Sky Qualifications. The Company will use its reasonable best efforts, in cooperation with the Underwriters, to qualify the Securities for offering and sale under the applicable securities laws of such states and other jurisdictions (domestic or foreign) as the Representative may reasonably designate and to maintain such qualifications in effect so long as required to complete the distribution of the Securities; provided, however, that the Company shall not be obligated to file any general consent to service of process or to qualify as a foreign corporation or as a dealer in securities in any jurisdiction in which it is not so qualified or to subject itself to taxation in respect of doing business in any jurisdiction in which it is not otherwise so subject.

(f) *Rule 158.* The Company will timely file such reports pursuant to the 1934 Act as are necessary in order to make generally available to its securityholders as soon as practicable an earning statement for the purposes of, and to provide to the Underwriters the benefits contemplated by, the last paragraph of Section 11(a) of the 1933 Act.

(g) Use of Proceeds. The Company will use the net proceeds received by it from the sale of the Securities in the manner specified in the Prospectus under the heading "Use of Proceeds."

(h) *Listing.* The Company will use its best efforts to effect and maintain the listing of the Common Stock (including the Securities) on The Nasdaq Capital Market.

(i) *Restriction on Sale of Securities.* During a period of 90 days from the date of the Prospectus, the Company will not, without the prior written consent of the Representative, (i) directly or indirectly, offer, pledge, sell, contract to sell, sell any option or contract to purchase, purchase any option or contract to sell, grant any option, right or warrant to purchase or otherwise transfer or dispose of any shares of Common Stock or any securities convertible into or exercisable or exchangeable for Common Stock or file any registration statement under the 1933 Act with respect to any of the foregoing, (ii) enter into any swap or any other agreement or any transaction that transfers, in whole or in part, directly or indirectly, the economic consequence of ownership of the Common Stock, whether any such swap or transaction described in clause (i) or (ii) above is to be settled by delivery of Common Stock or such other securities, in cash or otherwise or (iii) publicly announce an intention to effect any such swap, agreement or other transaction described in clauses (i) and (ii). The foregoing sentence shall not apply to (A) the Securities to be sold hereunder; (B) any shares of Common Stock issued by the Company upon the exercise of an option or warrant or the conversion of a convertible security outstanding on the date hereof and referred to in the Registration Statement, the General Disclosure Package and the Prospectus; (C) any shares of Common Stock issued or options to purchase Common Stock granted by the Company pursuant to existing employee benefit plans of the Company referred to in the Registration Statements, the General Disclosure Package and the Prospectus; (D) any shares of Common Stock issued by the Company pursuant to any existing non-employee director stock plan or dividend reinvestment plan referred to in the Registration Statements, the General Disclosure Package and the Prospectus; or (E) the filing by the Company of any registration statement on Form S-8 or a successor form thereto.

(j) *Reporting Requirements.* The Company, during the period when a Prospectus relating to the Securities is (or, but for the exception afforded by Rule 172, would be) required to be delivered under the 1933 Act, will file all documents required to be filed with the Commission pursuant to the 1934 Act within the time periods required by the 1934 Act and 1934 Act Regulations. Additionally, the Company shall report the use of proceeds from the issuance of the Securities as may be required under Rule 463 under the 1933 Act.

(k) Issuer Free Writing Prospectuses. The Company and the Selling Shareholder each agrees that, unless it obtains the prior written consent of the Representative, it will not make any offer relating to the Securities that would constitute an Issuer Free Writing Prospectus or that would otherwise constitute a "free writing prospectus," or a portion thereof, required to be filed by the Company with the Commission or retained by the Company under Rule 433; provided that the Representative will be deemed to have consented to the Issuer Free Writing Prospectuses listed on Schedule B-2 hereto and any "road show that is a written communication" within the meaning of Rule 433(d)(8)(i) that has been reviewed by the Representative. The Company represents that it has treated or agrees that it will treat each such free writing prospectus consented to, or deemed consented to, by the Representative as an "issuer free writing prospectus," as defined in Rule 433, and that it has complied and will comply with the applicable requirements of Rule 433 with respect thereto, including timely filing with the Commission where required, legending and record keeping. If at any time following issuance of an Issuer Free Writing Prospectus there occurred or occurs an event or development as a result of which such Issuer Free Writing Prospectus conflicted or would conflict with the information contained in any Registration Statement, any preliminary prospectus or the Prospectus or included or would include an untrue statement of a material fact or omitted or would omit to state a material fact necessary in order to make the statements therein, in the light of the circumstances existing at that subsequent time, not misleading, the Company will promptly notify the Representative and will promptly amend or supplement, at its own expense, such Issuer Free Writing Prospectus to eliminate or correct such conflict, untrue statement or omission.

#### SECTION 4. Payment of Expenses.

*Expenses.* The Company will pay or cause to be paid all expenses incident to the performance of (a) its obligations under this Agreement, including (i) the preparation, printing and filing of the Registration Statements (including financial statements and exhibits) as originally filed and each amendment thereto, (ii) the preparation, printing and delivery to the Underwriters of copies of each preliminary prospectus, each Issuer Free Writing Prospectus and the Prospectus and any amendments or supplements thereto and any costs associated with electronic delivery of any of the foregoing by the Underwriters to investors, (iii) the preparation, issuance and delivery of the certificates or security entitlements for the Securities to the Underwriters, including any stock or other transfer taxes and any stamp or other duties payable upon the sale, issuance or delivery of the Securities to the Underwriters, (iv) the fees and disbursements of the Company's counsel, counsel for the Selling Shareholder, accountants and other advisors, (v) the qualification of the Securities under securities laws in accordance with the provisions of Section 3(e) hereof, including filing fees and the reasonable fees and disbursements of counsel for the Underwriters in connection therewith and in connection with the preparation of a "Blue Sky Survey" and any supplement thereto, (vi) the fees and expenses of any transfer agent or registrar for the Securities, (vii) the costs and expenses of the Company relating to investor presentations on any "road show" undertaken in connection with the marketing of the Securities, including without limitation, expenses associated with the production of road show slides and graphics, fees and expenses of any consultants engaged in connection with the road show presentations, travel and lodging expenses of the representatives and officers of the Company and any such consultants, and the cost of aircraft and other transportation chartered in connection with the road show, (viii) the filing fees incident to, and the reasonable fees and disbursements of counsel to the Underwriters in connection with, the review by FINRA of the terms of the sale of the Securities, (ix) the fees and expenses incurred in connection with the listing of the Securities on The Nasdaq

Capital Market, and (x) the costs and expenses (including, without limitation, any damages or other amounts payable in connection with legal or contractual liability) associated with the reforming of any contracts for sale of the Securities made by the Underwriters caused by a breach of the representation contained in the third sentence of Section 1(a)(ii). Except as provided in this Section 4, Section 6 or Section 7, the Underwriters shall pay their own expenses, including the fees and disbursements of their counsel.

( b ) *Expenses of the Selling Shareholder.* The Company will pay all expenses incident to the performance of the Selling Shareholder's obligations under, and the consummation of the transactions contemplated by, this Agreement, including the reasonable fees and disbursements of its counsel. The Selling Shareholder will pay (i) any stamp and other duties and stock and other transfer taxes, if any, payable upon the sale of the Securities to the Underwriters and its transfer between the Underwriters pursuant to an agreement between such Underwriters, and (ii) the underwriting discounts and commissions attributable to the sale of the Securities to be sold by the Selling Shareholder. This provision will not modify any agreement between the Company and the Selling Shareholder regarding (i) payment of any expenses or (ii) any indemnification of the Selling Shareholder as provided in the Registration Rights Agreement, dated as of August 26, 2015, between the Company and the Selling Shareholder.

(c) *Termination of Agreement*. If this Agreement is terminated by the Representative in accordance with the provisions of Section 5, Section 9(a)(i), Section 9(a)(iii), Section 10 or Section 11 hereof, the Company shall reimburse the Underwriters for all of their reasonably documented out-of-pocket expenses, including the reasonable fees and disbursements of counsel for the Underwriters; provided, however, that if this Agreement is terminated by the Representative pursuant to Section 10 hereof, the Company shall have no obligation to reimburse any out-of-pocket expenses of any Underwriter that has failed to purchase the Securities that such Underwriter has agreed to purchase hereunder.

SECTION 5. <u>Conditions of Underwriters' Obligations</u>. The obligations of the several Underwriters hereunder are subject to the accuracy of the representations and warranties of the Company and the Selling Shareholder contained herein or in certificates of any officer of the Company or any of its Subsidiaries or on behalf of the Selling Shareholder delivered pursuant to the provisions hereof, to the performance by the Company and the Selling Shareholder of their respective covenants and other obligations hereunder, and to the following further conditions:

(a) *Effectiveness of Registration Statement*. Each Registration Statement, including any Rule 462(b) Registration Statement, has become effective and, at the Closing Time, no stop order suspending the effectiveness of any Registration Statement or any post-effective amendment thereto has been issued under the 1933 Act, no order preventing or suspending the use of any preliminary prospectus or the Prospectus has been issued and no proceedings for any of those purposes have been instituted or are pending or, to the Company's knowledge, contemplated; and the Company has complied with each request (if any) from the Commission for additional information to the reasonable satisfaction of counsel to the Underwriters.

(b) Opinion of Counsel for Company. At the Closing Time, the Representative shall have received the opinion and the negative assurance letter, each dated the Closing Time, of DLA Piper LLP, counsel for the Company, together with the opinion of Saliwanchik, Lloyd & Eisenschenk, P.A., special counsel for the Company with respect to intellectual property matters, and the opinion of Goodwin Procter LLP, special counsel for the Company with respect to regulatory matters, substantially in the forms agreed to by the Representative prior to execution of this Agreement, together with signed or reproduced copies of each such letter for each of the other Underwriters.

(c) *Opinion of Counsel for the Selling Shareholder.* At the Closing Time, the Representatives shall have received the favorable opinion, dated the Closing Time, of Reed Smith LLP, counsel for the Selling Shareholder, substantially in the form agreed to by the Representative prior to execution of this Agreement, together with signed or reproduced copies of such letter for each of the other Underwriters.

(d) *Opinion of Counsel for Underwriters.* At the Closing Time, the Representative shall have received the opinion, and negative assurance letter, each dated the Closing Time, of Latham & Watkins LLP, counsel for the Underwriters, together with signed or reproduced copies of such letters for each of the other Underwriters in form and substance satisfactory to the Representative.

(e) Officers' Certificate. At the Closing Time, there shall not have been, since the date hereof or since the respective dates as of which information is given in the Registration Statements, the General Disclosure Package or the Prospectus, any material adverse change in the condition, financial or otherwise, or in the earnings, business affairs or business prospects of the Company and its Subsidiaries considered as one enterprise, whether or not arising in the ordinary course of business, and the Representative shall have received a certificate of the principal executive officer of the Company and of the principal financial officer of the Company, dated the Closing Time, to the effect that (i) there has been no such material adverse change, (ii) the representations and warranties of the Company in this Agreement are true and correct with the same force and effect as though expressly made at and as of the Closing Time, (iii) the Company has complied with all agreements and satisfied all conditions on its part to be performed or satisfied at or prior to the Closing Time, and (iv) no stop order suspending the effectiveness of any Registration Statement under the 1933 Act has been issued, no order preventing or suspending the use of any preliminary prospectus or the Prospectus has been issued and no proceedings for any of those purposes have been instituted or are pending or, to their knowledge, contemplated.

(f) *Certificate of Selling Shareholder.* At the Closing Time, the Representatives shall have received a certificate from the Selling Shareholder, dated the Closing Time, to the effect that (i) the representations and warranties of the Selling Shareholder in this Agreement are true and correct with the same force and effect as though expressly made at and as of the Closing Time and (ii) the Selling Shareholder has complied with all agreements and all conditions on its part to be performed under this Agreement at or prior to the Closing Time.

(g) Accountant's Comfort Letter. At the time of the execution of this Agreement, the Representative shall have received from Lurie, LLP a letter, dated such date, in form and substance satisfactory to the Representative, together with signed or reproduced copies of such letter for each of the other Underwriters containing statements and information of the type ordinarily included in accountants' "comfort letters" to underwriters with respect to the financial statements and certain financial information contained in the Registration Statements, the General Disclosure Package and the Prospectus.

(h) *Bring-down Comfort Letter.* At the Closing Time, the Representative shall have received from Lurie, LLP a letter, dated as of the Closing Time, to the effect that they reaffirm the statements made in the letter furnished pursuant to subsection (g) of this Section 5, except that the specified date referred to shall be a date not more than three business days prior to the Closing Time.

(i) *Approval of Listing.* At the Closing Time, the Securities shall have been approved for listing on the Nasdaq Capital Market, subject only to official notice of issuance.

(j) *No Objection.* FINRA has confirmed that it has not raised any objection with respect to the fairness and reasonableness of the underwriting terms and arrangements relating to the offering of the Securities.

(k) Lock-up Agreements. At the date of this Agreement, the Representative shall have received an agreement substantially in the form of Exhibit A hereto signed by all of the Company's directors and officers and the Selling Shareholder.

(1) *Conditions to Purchase of Option Securities.* In the event that the Underwriters exercise their option provided in Section 2(b) hereof to purchase all or any portion of the Option Securities, the representations and warranties of the Company and the Selling Shareholder contained herein and the statements in any certificates furnished by the Company, any of its Subsidiaries and the Selling Shareholder hereunder shall be true and correct as of each Date of Delivery and, at the relevant Date of Delivery, the Representative shall have received:

(i) <u>Officers' Certificate</u>. A certificate, dated such Date of Delivery, of the principal executive officer of the Company and of the principal financial officer of the Company confirming that the certificate delivered at the Closing Time pursuant to Section 5(e) hereof remains true and correct as of such Date of Delivery.

(ii) <u>Certificate of Selling Shareholder</u>. A certificate, dated such Date of Delivery, from the Selling Shareholder confirming that the certificate delivered at the Closing Time pursuant to Section 5(f) hereof remains true and correct as of such Date of Delivery.

(iii) <u>Opinion of Counsel for Company</u>. If requested by the Representative, the opinion, and negative assurance letter, of DLA Piper LLP, counsel for the Company, together with the opinion of Saliwanchik, Lloyd & Eisenschenk, P.A., special counsel for the Company with respect to intellectual property matters, and the opinion of Goodwin Procter LLP, special counsel for the Company with respect to regulatory matters, each in form and substance reasonably satisfactory to counsel for the Underwriters, dated such Date of Delivery, relating to the Option Securities to be sold by the Company and to be purchased on such Date of Delivery and otherwise to the same effect as the opinions and negative assurance letter required by Section 5(b) hereof.

(iv) <u>Opinion of Counsel for the Selling Shareholder</u>. If requested by the Representative, the opinion of Reed Smith LLP, counsel for the Selling Shareholder, in form and substance reasonably satisfactory to counsel for the Underwriters, dated such Date of Delivery, relating to the Option Securities to be sold by the Selling Shareholder and to be purchased on such Date of Delivery and otherwise to the same effect as the opinion required by Section 5(c) hereof.

(v) <u>Opinion of Counsel for Underwriters</u>. If requested by the Representative, the opinion, and negative assurance letter, of Latham & Watkins LLP counsel for the Underwriters, dated such Date of Delivery, relating to the Option Securities to be purchased on such Date of Delivery and otherwise to the same effect as the opinion and negative assurance letter required by Section 5(d) hereof.

(vi) <u>Bring-down Comfort Letter</u>. If requested by the Representative, a letter from Lurie, LLP, in form and substance satisfactory to the Representative and dated such Date of Delivery, substantially in the same form and substance as the letter furnished to the Representative pursuant to subsection (h) of this Section, except that the "specified date" in the letter furnished pursuant to this paragraph shall be a date not more than three business days prior to such Date of Delivery.

(m) *Additional Documents.* At the Closing Time and at each Date of Delivery (if any), counsel for the Underwriters shall have been furnished with such documents and opinions as they may reasonably require for the purpose of enabling them to pass upon the issuance and sale of the Securities as herein

contemplated, or in order to evidence the accuracy of any of the representations or warranties, or the fulfillment of any of the conditions, herein contained; and all proceedings taken by the Company and the Selling Shareholder in connection with the issuance and sale of the Securities as herein contemplated shall be reasonably satisfactory in form and substance to the Representative and counsel for the Underwriters.

(n) *Termination of Agreement.* If any condition specified in this Section shall not have been fulfilled when and as required to be fulfilled, this Agreement, or, in the case of any condition to the purchase of Option Securities on a Date of Delivery which is after the Closing Time, the obligations of the several Underwriters to purchase the relevant Option Securities, may be terminated by the Representative by notice to the Company and the Selling Shareholder at any time at or prior to Closing Time or such Date of Delivery, as the case may be, and such termination shall be without liability of any party to any other party except as provided in Section 4 and except that Sections 1, 4, 6, 7, 8, 15, 16 and 17 shall survive any such termination and remain in full force and effect.

# SECTION 6. Indemnification.

(a) *Indemnification of Underwriters.* The Company agrees to indemnify and hold harmless each Underwriter, its affiliates (as such term is defined in Rule 501(b) under the 1933 Act (each, an "<u>Affiliate</u>")), its selling agents and each person, if any, who controls any Underwriter within the meaning of Section 15 of the 1933 Act or Section 20 of the 1934 Act as follows:

(i) against any and all loss, liability, claim, damage and expense whatsoever, as incurred, arising out of any untrue statement or alleged untrue statement of a material fact contained in a Registration Statement (or any amendment thereto), including any information deemed to be a part thereof pursuant to Rule 430B, or the omission or alleged omission therefrom of a material fact required to be stated therein or necessary to make the statements therein not misleading or arising out of any untrue statement or alleged untrue statement of a material fact included (A) in any preliminary prospectus, any Issuer Free Writing Prospectus, the General Disclosure Package or the Prospectus (or any amendment or supplement thereto), or (B) in any materials or information provided to investors by, or with the approval of, the Company in connection with the marketing of the offering of the Securities ("<u>Marketing Materials</u>"), including any roadshow or investor presentations made to investors by the Company (whether in person or electronically), or the omission or alleged omission in any preliminary prospectus, any Issuer Free Writing Prospectus, the General Disclosure Package, the Prospectus (or any amendment or supplement thereto) or in any Marketing Materials of a material fact necessary in order to make the statements therein, in the light of the circumstances under which they were made, not misleading;

(ii) against any and all loss, liability, claim, damage and expense whatsoever, as incurred, to the extent of the aggregate amount paid in settlement of any litigation, or any investigation or proceeding by any governmental agency or body, commenced or threatened, or of any claim whatsoever based upon any such untrue statement or omission, or any such alleged untrue statement or omission; provided that (subject to Section 6(d) below) any such settlement is effected with the written consent of the Selling Shareholder indemnified party;

(iii) against any and all expense whatsoever, as incurred (including the reasonable fees and disbursements of counsel chosen by the Representative), reasonably incurred in investigating, preparing or defending against any litigation, or any investigation or proceeding by any governmental agency or body, commenced or threatened, or any claim whatsoever based upon any such untrue statement or omission, or any such alleged untrue statement or omission, to the extent that any such expense is not paid under (i) or (ii) above;

provided, however, that this indemnity agreement shall not apply to any loss, liability, claim, damage or expense to the extent arising out of any untrue statement or omission or alleged untrue statement or omission made in a

Registration Statement (or any amendment thereto), including any information deemed to be a part thereof pursuant to Rule 430B, the General Disclosure Package or the Prospectus (or any amendment or supplement thereto) in reliance upon and in conformity with the Underwriter Information or the Selling Shareholder Information.

( b ) Indemnification of Underwriters by Selling Shareholder. The Selling Shareholder agrees to indemnify and hold harmless each Underwriter, its Affiliates and selling agents and each person, if any, who controls any Underwriter within the meaning of Section 15 of the 1933 Act or Section 20 of the 1934 Act to the extent and in the manner set forth in clauses (a)(i), (ii) and (iii) above; provided that the Selling Shareholder shall be liable only to the extent that such untrue statement or alleged untrue statement or omission or alleged omission has been made in the Registration Statement, the General Disclosure Package, the Prospectus (or any amendment or supplement thereto) or any Issuer Free Writing Prospectus in reliance upon and in conformity with the Selling Shareholder Information furnished in writing by or on behalf of the Selling Shareholder shall be limited to an amount equal to the aggregate net proceeds after underwriting commissions and discounts, but before expenses, to the Selling Shareholder from the sale of Securities sold by the Selling Shareholder.

(c) Indemnification of Company, Directors and Officers and Selling Shareholder. Each Underwriter severally agrees to indemnify and hold harmless the Company, its directors, each of its officers who signed the Registration Statement, and each person, if any, who controls the Company within the meaning of Section 15 of the 1933 Act or Section 20 of the 1934 Act, and the Selling Shareholder and each person, if any, who controls any Selling Shareholder within the meaning of Section 15 of the 1933 Act or Section 20 of the 1934 Act, and the Selling Shareholder and each person, if any, who controls any and all loss, liability, claim, damage and expense described in the indemnity contained in subsection (a) of this Section, as incurred, but only with respect to untrue statements or omissions, or alleged untrue statements or omissions, made in the Registration Statement (or any amendment thereto), including any information deemed to be a part thereof pursuant to Rule 430B, the General Disclosure Package or the Prospectus (or any amendment or supplement thereto) in reliance upon and in conformity with the Underwriter Information.

(d) Actions against Parties; Notification. Each indemnified party shall give notice as promptly as reasonably practicable to each indemnifying party of any action commenced against it in respect of which indemnity may be sought hereunder, but failure to so notify an indemnifying party shall not relieve such indemnifying party from any liability hereunder to the extent it is not materially prejudiced as a result thereof and in any event shall not relieve it from any liability which it may have otherwise than on account of this indemnity agreement. In the case of parties indemnified pursuant to Section 6(a) and 6(b) above, counsel to the indemnified parties shall be selected by the Representative, and, in the case of parties indemnified pursuant to Section 6(c) above, counsel to the indemnified parties shall be selected by the Company. An indemnifying party may participate at its own expense in the defense of any such action; provided, however, that counsel to the indemnifying party shall not (except with the consent of the indemnified party) also be counsel to the indemnified party. In no event shall the indemnifying parties be liable for the reasonable fees and expenses of more than one counsel (in addition to any local counsel) separate from their own counsel for all indemnified parties in connection with any one action or separate but similar or related actions in the same jurisdiction arising out of the same general allegations or circumstances. No indemnifying party shall, without the prior written consent of the indemnified parties, settle or compromise or consent to the entry of any judgment with respect to any litigation, or any investigation or proceeding by any governmental agency or body, commenced or threatened, or any claim whatsoever in respect of which indemnification or contribution could be sought under this Section 6 or Section 7 hereof (whether or not the indemnified parties are actual or potential parties thereto), unless such

settlement, compromise or consent (i) includes an unconditional release of each indemnified party from all liability arising out of such litigation, investigation, proceeding or claim and (ii) does not include a statement as to or an admission of fault, culpability or a failure to act by or on behalf of any indemnified party.

(e) Settlement without Consent if Failure to Reimburse. If at any time an indemnified party shall have requested an indemnifying party to reimburse the indemnified party for fees and expenses of counsel, such indemnifying party agrees that it shall be liable for any settlement of the nature contemplated by Section 6(a)(ii) effected without its written consent if (i) such settlement is entered into more than 45 days after receipt by such indemnifying party of the aforesaid request, (ii) such indemnifying party shall have received notice of the terms of such settlement at least 30 days prior to such settlement being entered into and (iii) such indemnifying party shall not have reimbursed such indemnified party in accordance with such request prior to the date of such settlement.

(f) *Other Agreements with Respect to Indemnification.* The provisions of this Section shall not affect any agreement among the Company and the Selling Shareholder with respect to indemnification.

SECTION 7. <u>Contribution</u>. If the indemnification provided for in Section 6 hereof is for any reason unavailable to or insufficient to hold harmless an indemnified party in respect of any losses, liabilities, claims, damages or expenses referred to therein, then each indemnifying party shall contribute to the aggregate amount of such losses, liabilities, claims, damages and expenses incurred by such indemnified party, as incurred, (i) in such proportion as is appropriate to reflect the relative benefits received by the Company and the Selling Shareholder, on the one hand, and the Underwriters, on the other hand, from the offering of the Securities pursuant to this Agreement or (ii) if the allocation provided by clause (i) is not permitted by applicable law, in such proportion as is appropriate to reflect not only the relative benefits referred to in clause (i) above but also the relative fault of the Company and the Selling Shareholder, on the one hand, and of the Underwriters, on the other hand, in connection with the statements or omissions, which resulted in such losses, liabilities, claims, damages or expenses, as well as any other relevant equitable considerations.

The relative benefits received by the Company and the Selling Shareholder, on the one hand, and the Underwriters, on the other hand, in connection with the offering of the Securities pursuant to this Agreement shall be deemed to be in the same respective proportions as the total net proceeds from the offering of the Securities pursuant to this Agreement (before deducting expenses) received by the Company and the Selling Shareholder, on the one hand, and the total underwriting discount received by the Underwriters, on the other hand, in each case as set forth on the cover of the Prospectus, bear to the aggregate initial public offering price of the Securities as set forth on the cover of the Prospectus.

The relative fault of the Company and the Selling Shareholder, on the one hand, and the Underwriters, on the other hand, shall be determined by reference to, among other things, whether any such untrue or alleged untrue statement of a material fact or omission or alleged omission to state a material fact relates to information supplied by the Company or the Selling Shareholder or by the Underwriters and the parties' relative intent, knowledge, access to information and opportunity to correct or prevent such statement or omission.

The Company, the Selling Shareholder and the Underwriters agree that it would not be just and equitable if contribution pursuant to this Section 7 were determined by pro rata allocation (even if the Underwriters were treated as one entity for such purpose) or by any other method of allocation which does not take account of the equitable considerations referred to above in this Section 7. The aggregate amount of losses, liabilities, claims, damages and expenses incurred by an indemnified party and referred to above in this Section 7 shall be deemed to include any legal or other expenses reasonably incurred by such indemnified party in investigating, preparing or defending against any litigation, or any investigation or



proceeding by any governmental agency or body, commenced or threatened, or any claim whatsoever based upon any such untrue or alleged untrue statement or omission or alleged omission.

Notwithstanding the provisions of this Section 7, (i) no Underwriter shall be required to contribute any amount in excess of the underwriting discounts and commissions received by such Underwriter in connection with the Securities underwritten by it and distributed to the public and (ii) no Selling Shareholder shall be required to contribute in excess of the aggregate net proceeds after underwriting commissions and discounts, but before expenses, to the Selling Shareholder from the sale of Securities sold by the Selling Shareholder hereunder.

No person guilty of fraudulent misrepresentation (within the meaning of Section 11(f) of the 1933 Act) shall be entitled to contribution from any person who was not guilty of such fraudulent misrepresentation.

For purposes of this Section 7, each person, if any, who controls an Underwriter within the meaning of Section 15 of the 1933 Act or Section 20 of the 1934 Act and each Underwriter's Affiliates and selling agents shall have the same rights to contribution as such Underwriter, and each director of the Company, each officer of the Company who signed the Registration Statement, and each person, if any, who controls the Company or the Selling Shareholder within the meaning of Section 15 of the 1933 Act or Section 20 of the 1934 Act shall have the same rights to contribution as the Company. The Underwriters' respective obligations to contribute pursuant to this Section 7 are several in proportion to the number of Initial Securities set forth opposite their respective names in <u>Schedule A-1</u> hereto and not joint.

The provisions of this Section shall not affect any agreement among the Company and the Selling Shareholder with respect to contribution.

SECTION 8. <u>Representations, Warranties and Agreements to Survive</u>. All representations, warranties and agreements contained in this Agreement or in certificates of officers of the Company or any of its Subsidiaries or the Selling Shareholder submitted pursuant hereto, shall remain operative and in full force and effect regardless of (i) any investigation made by or on behalf of any Underwriter or its Affiliates or selling agents, any person controlling any Underwriter, its officers or directors or any person controlling the Company and (ii) delivery of and payment for the Securities.

## SECTION 9. <u>Termination of Agreement</u>.

(a) Termination. The Representative may terminate this Agreement, by notice to the Company and the Selling Shareholder, at any time at or prior to the Closing Time (i) if there has been, in the judgment of the Representative, since the time of execution of this Agreement or since the respective dates as of which information is given in the Registration Statements, the General Disclosure Package or the Prospectus, any material adverse change in the condition, financial or otherwise, or in the earnings, business affairs or business prospects of the Company and its Subsidiaries considered as one enterprise, whether or not arising in the ordinary course of business, or (ii) if there has occurred any material adverse change in the financial markets in the United States or the international financial markets, any outbreak of hostilities or escalation thereof or other calamity or crisis or any change or development involving a prospective change in U.S. or international political, financial or economic conditions, in each case the effect of which is such as to make it, in the judgment of the Representative, impracticable or inadvisable to proceed with the completion of the offering or to enforce contracts for the sale of the Securities, or (iii) if trading in any securities of the Company has been suspended or materially limited by the Commission or The Nasdaq Capital Market, or (iv) if trading generally on the NYSE Amex or the New York Stock Exchange or in the Nasdaq Capital Market has been suspended or materially limited, or minimum or maximum prices for trading have been fixed, or maximum ranges for prices have been required, by any of said exchanges or by

order of the Commission, FINRA or any other governmental authority, or (v) a material disruption has occurred in commercial banking or securities settlement or clearance services in the United States or with respect to Clearstream or Euroclear systems in Europe, or (vi) if a banking moratorium has been declared by either Federal or New York authorities.

(b) *Liabilities*. If this Agreement is terminated pursuant to this Section, such termination shall be without liability of any party to any other party except as provided in Section 4 hereof, and provided further that Sections 1, 4, 6, 7, 8, 15, 16 and 17 shall survive such termination and remain in full force and effect.

SECTION 10. <u>Default by One or More of the Underwriters</u>. If one or more of the Underwriters shall fail at the Closing Time or a Date of Delivery to purchase the Securities which it or they are obligated to purchase under this Agreement (the "<u>Defaulted Securities</u>"), the Representative shall have the right, within 24 hours thereafter, to make arrangements for one or more of the non-defaulting Underwriters, or any other underwriters, to purchase all, but not less than all, of the Defaulted Securities in such amounts as may be agreed upon and upon the terms herein set forth; if, however, the Representative shall not have completed such arrangements within such 24-hour period, then:

(i) if the number of Defaulted Securities does not exceed 10% of the number of Securities to be purchased on such date, each of the non-defaulting Underwriters shall be obligated, severally and not jointly, to purchase the full amount thereof in the proportions that their respective underwriting obligations hereunder bear to the underwriting obligations of all non-defaulting Underwriters, or

(ii) if the number of Defaulted Securities exceeds 10% of the number of Securities to be purchased on such date, this Agreement or, with respect to any Date of Delivery which occurs after the Closing Time, the obligation of the Underwriters to purchase, and the Company to sell, the Option Securities to be purchased and sold on such Date of Delivery shall terminate without liability on the part of any non-defaulting Underwriter.

No action taken pursuant to this Section shall relieve any defaulting Underwriter from liability in respect of its default.

In the event of any such default which does not result in a termination of this Agreement or, in the case of a Date of Delivery which is after the Closing Time, which does not result in a termination of the obligation of the Underwriters to purchase and the Company to sell the relevant Option Securities, as the case may be, either the (i) Representative or (ii) the Company and the Selling Shareholder shall have the right to postpone Closing Time or the relevant Date of Delivery, as the case may be, for a period not exceeding seven days in order to effect any required changes in the Registration Statement, the General Disclosure Package or the Prospectus or in any other documents or arrangements. As used herein, the term "Underwriter" includes any person substituted for an Underwriter under this Section 10.

# SECTION 11. Default by the Selling Shareholder or the Company.

(a) If the Selling Shareholder shall fail at the Closing Time or a Date of Delivery, as the case may be, to sell and deliver the number of Securities which the Selling Shareholder is obligated to sell hereunder, then the Underwriters may, at the option of the Representative, by notice from the Representative to the Company and the Selling Shareholder, either (i) terminate this Agreement without any liability on the fault of any non-defaulting party except that the provisions of Sections 1, 4, 6, 7, 8, 15, 16 and 17 shall remain in full force and effect or (ii) elect to purchase the Securities which the Company has agreed to sell hereunder. No action taken pursuant to this Section 11 shall relieve the Selling

Shareholder so defaulting from liability, if any, in respect of such default. For the avoidance of doubt, no default by the Selling Shareholder shall create any obligations on the part of the Company to issue or sell additional Securities.

In the event of a default by the Selling Shareholder\_as referred to in this Section 11, each of the Representatives and the Company shall have the right to postpone the Closing Time or any Date of Delivery, as the case may be, for a period not exceeding seven days in order to effect any required change in the Registration Statement, the General Disclosure Package or the Prospectus or in any other documents or arrangements.

(b) If the Company shall fail at the Closing Time or a Date of Delivery, as the case may be, to sell the number of Securities that it is obligated to sell hereunder, then this Agreement shall terminate without any liability on the part of any nondefaulting party; provided, however, that the provisions of Sections 1, 4, 6, 7, 8, 15, 16 and 17 shall remain in full force and effect. No action taken pursuant to this Section shall relieve the Company from liability, if any, in respect of such default.

SECTION 12. Notices. All notices and other communications hereunder shall be in writing and shall be deemed to have been duly given if mailed or transmitted by any standard form of telecommunication. Notices to the Underwriters shall be directed to Leerink at 299 Park Avenue, 21<sup>st</sup> Floor, New York, NY 10171, attention of Stuart R. Nayman, with a copy to Latham & Watkins LLP, 650 Town Center Drive, 20th Floor, Costa Mesa, California 92627, attention of B. Shayne Kennedy (facsimile: (714) 755-8290); notices to the Company shall be directed to it at 13631 Progress Blvd., Suite 400, Alachua, Florida 32615, attention of General Counsel, with a copy to DLA Piper LLP, 51 John F. Kennedy Parkway, Suite 120, Short Hills, New Jersey 07078, attention Scott Cowan (facsimile: (973) 520-2574); and notices to the Selling Shareholder shall be directed to EW Healthcare Partners L.P., 21 Waterway Avenue, Suite 225, The Woodlands, TX 77380, Attn: Richard Kolodziejcyk, Chief Financial Officer (facsimile: (282) 364-9755).

No Advisory or Fiduciary Relationship. Each of the Company and the Selling SECTION 13. Shareholder acknowledges and agrees that (a) the purchase and sale of the Securities pursuant to this Agreement, including the determination of the initial public offering price of the Securities and any related discounts and commissions, is an arm's-length commercial transaction between the Company and the Selling Shareholder, on the one hand, and the several Underwriters, on the other hand, (b) in connection with the offering of the Securities and the process leading thereto, each Underwriter is and has been acting solely as a principal and is not the agent or fiduciary of the Company, any of its Subsidiaries or and the Selling Shareholder or their respective stockholders, creditors, employees or any other party, (c) no Underwriter has assumed or will assume an advisory or fiduciary responsibility in favor of the Company or the Selling Shareholder with respect to the offering of the Securities or the process leading thereto (irrespective of whether such Underwriter has advised or is currently advising the Company or any of its Subsidiaries or the Selling Shareholder on other matters) and no Underwriter has any obligation to the Company or the Selling Shareholder with respect to the offering of the Securities except the obligations expressly set forth in this Agreement, (d) the Underwriters and their respective affiliates may be engaged in a broad range of transactions that involve interests that differ from those of the Company and the Selling Shareholder and (e) the Underwriters have not provided any legal, accounting, regulatory or tax advice with respect to the offering of the Securities and the Company and the Selling Shareholder have consulted their own respective legal, accounting, regulatory and tax advisors to the extent they deemed appropriate.

SECTION 14. <u>Parties</u>. This Agreement shall each inure to the benefit of and be binding upon the Underwriters, the Company and the Selling Shareholder and their respective successors. Nothing expressed or mentioned in this Agreement is intended or shall be construed to give any person, firm or corporation, other than the Underwriters, the Company and the Selling Shareholder and their respective successors and

the controlling persons and officers and directors referred to in Sections 6 and 7 and their heirs and legal representatives, any legal or equitable right, remedy or claim under or in respect of this Agreement or any provision herein contained. This Agreement and all conditions and provisions hereof are intended to be for the sole and exclusive benefit of the Underwriters, the Company and the Selling Shareholder and their respective successors, and said controlling persons and officers and directors and their heirs and legal representatives, and for the benefit of no other person, firm or corporation. No purchaser of Securities from any Underwriter shall be deemed to be a successor by reason merely of such purchase.

SECTION 15. <u>Waiver of Trial by Jury</u>. The Company (on its behalf and, to the extent permitted by applicable law, on behalf of its stockholders and affiliates), the Selling Shareholder and each of the Underwriters hereby irrevocably waives, to the fullest extent permitted by applicable law, any and all right to trial by jury in any legal proceeding arising out of or relating to this Agreement or the transactions contemplated hereby.

SECTION 16. <u>GOVERNING LAW</u>. THIS AGREEMENT AND ANY CLAIM, CONTROVERSY OR DISPUTE ARISING UNDER OR RELATED TO THIS AGREEMENT SHALL BE GOVERNED BY, AND CONSTRUED IN ACCORDANCE WITH THE LAWS OF, THE STATE OF NEW YORK WITHOUT REGARD TO ITS CHOICE OF LAW PROVISIONS.

SECTION 17. <u>Consent to Jurisdiction; Waiver of Immunity</u>. Any legal suit, action or proceeding arising out of or based upon this Agreement or the transactions contemplated hereby shall be instituted in (i) the federal courts of the United States of America located in the City and County of New York, Borough of Manhattan or (ii) the courts of the State of New York located in the City and County of New York, Borough of Manhattan (collectively, the "<u>Specified Courts</u>"), and each party irrevocably submits to the exclusive jurisdiction (except for proceedings instituted in regard to the enforcement of a judgment of any such court, as to which such jurisdiction is non-exclusive) of such courts in any such suit, action or proceeding. Service of any process, summons, notice or document by mail to such party's address set forth above shall be effective service of process for any suit, action or other proceeding brought in any such court. The parties irrevocably and unconditionally waive and agree not to plead or claim in any such court that any such suit, action or other proceeding brought in any such court has been brought in an inconvenient forum.

SECTION 18. <u>TIME</u>. TIME SHALL BE OF THE ESSENCE OF THIS AGREEMENT. EXCEPT AS OTHERWISE SET FORTH HEREIN, SPECIFIED TIMES OF DAY REFER TO NEW YORK CITY TIME.

SECTION 19. <u>Partial Unenforceability</u>. The invalidity or unenforceability of any Section, paragraph or provision of this Agreement shall not affect the validity or enforceability of any other Section, paragraph or provision hereof. If any Section, paragraph or provision of this Agreement is for any reason determined to be invalid or unenforceable, there shall be deemed to be made such minor changes (and only such minor changes) as are necessary to make it valid and enforceable.

SECTION 20. <u>Counterparts</u>. This Agreement may be executed in any number of counterparts (which may include counterparts delivered by any standard form of telecommunication), each of which shall be deemed to be an original, but all such counterparts shall together constitute one and the same agreement.

SECTION 21. <u>Effect of Headings</u>. The Section headings herein are for convenience only and shall not affect the construction hereof.
SECTION 22. <u>Entire Agreement</u>. This Agreement supersedes all prior agreements and understandings (whether written or oral) between the Company, the Selling Shareholder and the Underwriters, or any of them, with respect to the subject matter hereof.

#### [SIGNATURE PAGES FOLLOW]

If the foregoing is in accordance with your understanding of our agreement, please sign and return to the Company and the Selling Shareholder a counterpart hereof, whereupon this instrument, along with all counterparts, will become a binding agreement among the Underwriters, the Company and the Selling Shareholder in accordance with its terms.

Very truly yours,

AXOGEN, INC.

By: /s/ Greg Freitag

Name: Greg Freitag Title: General Counsel

#### EW HEALTHCARE PARTNERS L.P.

By: /s/ Martin P. Sutter

Name: Martin P. Sutter Title: Managing Director

CONFIRMED AND ACCEPTED As of the date first above written:

LEERINK PARTNERS LLC

By: <u>/s/ John I. Fitzgerald, Esq.</u> Name: John I. Fitzgerald, Esq. Title: Managing Director

For itself and as Representative of the other Underwriters named in Schedule A-1 hereto.

[SIGNATURE PAGE TO UNDERWRITING AGREEMENT]

#### SCHEDULE A-1

The initial public offering price per share for the Securities shall be \$21.00.

The purchase price per share for the Securities to be paid by the several Underwriters shall be \$19.74, being an amount equal to the initial public offering price set forth above less \$1.26 per share, subject to adjustment in accordance with Section 2(b) for dividends or distributions declared by the Company and payable on the Initial Securities but not payable on the Option Securities.

| Name of Underwriter     | Number of<br>Initial Securities |
|-------------------------|---------------------------------|
| Leerink Partners LLC    | 1,190,000                       |
| Cantor Fitzgerald & Co. | 255,000                         |
| JMP Securities LLC      | 255,000                         |
|                         |                                 |
| Total                   | 1,700,000                       |
|                         |                                 |

#### SCHEDULE A-2

|                             | Number of Initial<br>Securities to be Sold | Maximum Number of<br>Option Securities<br>to be Sold |
|-----------------------------|--|--|
| AxoGen, Inc.                | 700,000                                    | 105,000  |
| EW Healthcare Partners L.P. | 1,000,000                                  | 150,000  |
| Total                       | 1,700,000                                  | 255,000  |

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#### SCHEDULE B-1

#### Pricing Terms

1. The Company is selling 700,000 shares of Common Stock and the Selling Shareholder is selling 1,000,000 shares of Common Stock.

2. The Company and the Selling Shareholder have granted an option to the Underwriters, severally and not jointly, to purchase up to an aggregate of an additional 255,000 shares of Common Stock.

3. The initial public offering price per share for the Securities shall be \$21.00.

4. Dilution to new investors in this offering will be approximately \$20.33 per share.

5. The Selling Shareholder will hold approximately 11.3% of the Company's outstanding Common Stock after the offering.

#### SCHEDULE B-2

#### Free Writing Prospectuses

None

#### FORM OF LOCK-UP AGREEMENT

November , 2017

Leerink Partners LLC as Representative of the several Underwriters

c/o Leerink Partners LLC 299 Park Avenue, 21st floor New York, NY 10171

#### Re: Proposed Public Offering by AxoGen, Inc.

Ladies and Gentlemen:

The undersigned, a shareholder, officer and/or director of AxoGen, Inc., a Minnesota corporation (the "Company"), understands that Leerink Partners LLC ("Leerink") proposes to enter into an Underwriting Agreement (the "Underwriting Agreement") with the Company and EW Healthcare Partners L.P. (the "Selling Shareholder") providing for the public offering (the "Public Offering") of shares (the "Securities") of the Company's common stock, par value \$0.01 per share (the "Common Stock"), by the Selling Shareholder and the Company. In recognition of the benefit that such an offering will confer upon the undersigned as a shareholder, an officer and/or a director of the Company, and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the undersigned agrees with each underwriter to be named in the Underwriting Agreement (collectively, the "Underwriters") that, during the period beginning on the date hereof and ending on the date that is [90]<sup>1</sup> days from the date of the Underwriting Agreement (the "Lock-Up Period"), the undersigned will not, without the prior written consent of Leerink, on behalf of the Underwriters, directly or indirectly (other than with respect to the Securities being sold by the Selling Shareholder pursuant to the Underwriting Agreement), (i) offer, pledge, sell, contract to sell, sell any option or contract to purchase, purchase any option or contract to sell, grant any option, right or warrant for the sale of, or otherwise dispose of or transfer any shares of Common Stock or any securities convertible into or exchangeable or exercisable for Common Stock, whether now owned or hereafter acquired by the undersigned or with respect to which the undersigned has or hereafter acquires the power of disposition (collectively, the "Lock-Up Securities"), or exercise any right with respect to the registration of any of the Lock-Up Securities, or file or cause to be filed any registration statement in connection therewith, under the Securities Act of 1933, as amended, or (ii) enter into any swap or any other agreement or any transaction that transfers, in whole or in part, directly or indirectly, the economic consequence of ownership of the Lock-Up Securities, whether any such swap or transaction is to be settled by delivery of Common Stock or other securities, in cash or otherwise.

Notwithstanding the foregoing, and subject to the conditions below, the undersigned may transfer Lock-Up Securities without the prior written consent of Leerink, provided, in each case, that (1) Leerink receives a signed lock-up agreement for the balance of the Lock-Up Period from each donee, trustee, distributee, or transferee, as the case may be, (2) any such transfer shall not involve a disposition for value, (3) such transfers are not required to be reported with the Securities and Exchange Commission on Form 4 in accordance with Section 16 of the Securities Exchange Act of 1934, as amended (the "Exchange Act"),

<sup>&</sup>lt;sup>1</sup> Note to Draft: To be 180 days for Essex.

and (4) the undersigned does not otherwise voluntarily effect any public filing or report regarding such transfers (other than a filing on a Form 5 made after the expiration of the Lock-Up Period):

- (i) as a *bona fide* gift or gifts;
- to any trust for the direct or indirect benefit of the undersigned or the immediate family of the undersigned (for purposes of this lock-up agreement, "immediate family" shall mean any relationship by blood, marriage or adoption, not more remote than first cousin);
- (iii) as a distribution or other transfer by a partnership to its partners or former partners or by a limited liability company to its members or retired members or by a corporation to its stockholders or former stockholders or to any wholly-owned subsidiary of such corporation;
- (iv) to the undersigned's affiliates or to any investment fund or other entity controlled or managed by the undersigned;
- (v) pursuant to a qualified domestic relations order or in connection with a divorce settlement;
- (vi) by will or intestate succession upon the death of the undersigned; or
- (vii) to the Company in satisfaction of any tax withholding obligation.

Furthermore, no provision in this letter shall be deemed to restrict or prohibit (1) the transfer of the undersigned's Lock-Up Securities to the Company in connection with the termination of the undersigned's services to the Company, provided that any filing under Section 16 of the Exchange Act made in connection with such transfer shall clearly indicate in the footnotes thereto that the filing relates to the circumstances described in this clause (1); (2)(a) the exercise or exchange by the undersigned of any option or warrant to acquire any shares of Common Stock or options to purchase shares of Common Stock, in each case for cash or on a "cashless" or "net exercise" basis, pursuant to any stock option, stock bonus or other stock plan or arrangement or (b) the transfer of shares of Common Stock to the Company pursuant to a stock swap to exercise options held by the undersigned; provided, however, in the case of either (a) or (b), that the shares of Common Stock underlying such exercised option or warrant shall continue to be subject to the restrictions on transfer set forth in this letter and that any filing under Section 16 of the Exchange Act made in connection with such exercise, exchange or stock swap shall clearly indicate in the footnotes thereto that (I) the filing relates to the circumstances described in this clause (2) and (II) no shares were sold by the reporting person; and (3) the transfer of Lock-Up Securities upon the completion of a bona fide third-party tender offer, merger, consolidation or other similar transaction made to all holders of the Company's securities involving a change of control of the Company; provided, however, that in the event that such tender offer, merger, consolidation or other such transaction is not completed, such securities held by the undersigned shall remain subject to the restrictions on transfer set forth in this letter.

[Notwithstanding anything herein to the contrary, nothing herein shall prevent the undersigned from establishing a 10b5-1 trading plan that complies with Rule 10b5-1 under the Exchange Act ("<u>10b5-1 Trading</u> <u>Plan</u>") or from amending an existing 10b5-1 Trading Plan so long as there are no sales of Lock-Up Securities under any such 10b5-1 Trading Plan during the Lock-Up Period; and provided that, the establishment of a 10b5-1 Trading Plan or the amendment of a 10b5-1 Trading Plan shall only be permitted if (i) the establishment or amendment of such plan is not required to be reported in any public report or



filing with the Securities Exchange Commission, or otherwise and (ii) the undersigned does not otherwise voluntarily effect any public filing or report regarding the establishment or amendment of such plan.]<sup>2</sup>

The undersigned also agrees and consents to the entry of stop transfer instructions with the Company's transfer agent and registrar against the transfer of the Lock-Up Securities except in compliance with the foregoing restrictions. This lock-up agreement shall automatically terminate, and the undersigned shall be released from the undersigned's obligations hereunder, upon the earliest to occur, if any, of (i) prior to the execution of the Underwriting Agreement, the Company and the Selling Shareholder advise Leerink in writing that they have determined not to proceed with the Public Offering; (ii) the Underwriting Agreement is executed but is terminated prior to the closing of the Public Offering (other than the provisions thereof which survive termination), or (iii) November 30, 2017, in the event that the Underwriting Agreement has not been executed by such date.

This agreement shall be governed by, and construed in accordance with, the laws of the State of New York.

#### [SIGNATURE PAGE FOLLOWS]

<sup>&</sup>lt;sup>2</sup> Note to Draft: Replace bracketed language with the following for Grooms:

Notwithstanding anything herein to the contrary, nothing herein shall prevent the undersigned from establishing a 10b5-1 trading plan that complies with Rule 10b5-1 under the Exchange Act ("<u>10b5-1 Trading Plan</u>") so long as there are no sales of Lock-Up Securities under any such 10b5-1 Trading Plan during the Lock-Up Period (other than as permitted in the last sentence of this paragraph); and provided that, the establishment of a 10b5-1 Trading Plan shall only be permitted if (i) the establishment or amendment of such plan is not required to be reported in any public report or filing with the Securities Exchange Commission, or otherwise and (ii) the undersigned does not otherwise voluntarily effect any public filing or report regarding the establishment of such plan. Notwithstanding the foregoing, the undersigned shall be permitted to sell up to 125,000 shares of Lock-Up Securities pursuant to a 10b5-1 Trading Plan, no such sales to occur until at least 15 days after the date hereof.

<sup>-3-</sup>

Very truly yours,

Name of Security Holder (Print exact name)

By:

Signature

If not signing in an individual capacity:

Name of Authorized Signatory (Print)

Title of Authorized Signatory (Print)

(indicate capacity of person signing if signing as custodian, trustee, or on behalf of an entity)

DLA Piper LLP (US) 51 John F. Kennedy Parkway, Suite 120 Short Hills, New Jersey 07078 www.dlapiper.com

T: 973-520-2550 F: 973-520-2551

Attorneys Responsible for Short Hills Office:

Andrew P. Gilbert Michael E. Helmer

November 20, 2017

AxoGen, Inc. 13631 Progress Boulevard, Suite 400 Alachua, Florida 32615

#### RE: <u>AxoGen, Inc., Registration Statements on Form S-3</u> (File Nos. 333-207829 and 333-220770)

Ladies and Gentlemen:

We have acted as counsel to AxoGen, Inc., a Minnesota corporation (the "Company"), in connection with (i) the offering by the Company of 805,000 shares (including 105,000 shares pursuant to the over-allotment option exercised in full by the underwriters on November 16, 2017) (the "Primary Shares") of the Company's common stock, par value \$0.01 per share (the "Common Stock"), pursuant to a registration statement on Form S-3 (File No. 333-207829) (the "Company Registration Statement"), filed with the United States Securities and Exchange Commission (the "SEC") on November 5, 2015, and declared effective by the SEC on December 11, 2015, and the prospectus contained therein, as supplemented by the prospectus supplement dated November 15, 2017 (the "Prospectus Supplement") and (ii) the offering by EW Healthcare Partners L.P (the "Selling Shareholder") of 1,150,000 shares (including 150,000 shares pursuant to the over-allotment option exercised in full by the underwriters on November 16, 2017) (the "Resale Shares" and together with the Primary Shares, the "Shares") of Common Stock held by the Selling Shareholder, pursuant to a registration statement on Form S-3 (File No. 333-220770) (the "Resale Registration Statement" and together with the Company Registration Statement, the "Registration Statements"), filed with the SEC on October 2, 2017, and declared effective by the SEC on October 11, 2017, and the prospectus contained therein, as supplemented by the Prospectus Supplement.

In connection with this opinion letter, we have examined the Registration Statements, the Prospectus Supplement and originals, or copies certified or otherwise identified to our satisfaction, of the Articles of Incorporation, as amended and restated, of the Company, as filed with the Secretary of State of the State of Minnesota, or the Bylaws, as amended and restated, of the Company, and the minutes of meetings of the shareholders and the Board of Directors of the Company, as provided to

AxoGen, Inc. November 20, 2017 Page 2

us by the Company, and such other documents, records and other instruments as we have deemed appropriate for purposes of the opinion set forth herein.

We have assumed the genuineness of all signatures, the legal capacity of all natural persons, the authenticity of the documents submitted to us as originals, the conformity with the originals of all documents submitted to us as certified, facsimile or photostatic copies and the authenticity of the originals of all documents submitted to us as copies.

Based upon the foregoing, we are of the opinion that the Shares have been duly authorized and are validly issued, fully paid and non-assessable.

The opinion expressed herein is limited to the Minnesota Business Corporation Act.

We hereby consent to the use of this opinion as Exhibit 5.1 to the Registration Statements and to the reference to us under the caption "Legal Matters" in the base prospectus included in the Registration Statements and the Prospectus Supplement. In giving such consent, we do not hereby admit that we are acting within the category of persons whose consent is required under Section 7 of the Act or the rules or regulations of the SEC thereunder.

Very truly yours,

/s/ DLA Piper LLP (US)

November 15, 2017



## AxoGen, Inc. Announces Proposed Public Offering of Common Stock

ALACHUA, Fla., Nov. 15, 2017 (GLOBE NEWSWIRE) -- AxoGen, Inc. (NASDAQ:AXGN), a global leader in developing and marketing innovative surgical solutions for the repair of peripheral nerve damage, announced today that it has commenced an underwritten public offering of its common stock. The offering is expected to consist of shares to be offered by AxoGen and 1,000,000 shares to be offered by EW Healthcare Partners L.P., the selling shareholder. In addition, AxoGen and the selling shareholder also expect to grant the underwriters a 30-day option to purchase up to an aggregate of an additional 15% of the number of shares of common stock sold in connection with the offering at the public offering price.

AxoGen intends to use the net proceeds from the proposed offering for general corporate purposes. AxoGen will not receive any proceeds from the sale of shares by the selling shareholder.

Leerink Partners is acting as lead book-running manager for the offering. JMP Securities and Cantor Fitzgerald & Co. are acting as co-managers. The offering is subject to market conditions, and there can be no assurance as to whether or when the offering may be completed, or as to the actual size or terms of the offering.

The shares of common stock are being offered pursuant to effective shelf registration statements that AxoGen previously filed with the Securities and Exchange Commission. A preliminary prospectus supplement and the accompanying prospectuses related to the offering are being filed with the SEC and will be available at the SEC's website located at www.sec.gov. When available, copies of the preliminary prospectus supplement and the accompanying prospectuses relating to this offering may be obtained from Leerink Partners LLC, Attention: Syndicate Department, One Federal Street, 37th Floor, Boston, MA, 02110, by email at syndicate@leerink.com, or by telephone at (800) 808-7525, ext.

6132.

This press release shall not constitute an offer to sell or the solicitation of an offer to buy, nor shall there by any sale of these securities in any jurisdiction in which such offer, solicitation or sale would be unlawful prior to the registration or qualification under the securities laws of any such jurisdiction.

#### About AxoGen

AxoGen (AXGN) is the leading company focused specifically on the science, development and commercialization of technologies for peripheral nerve regeneration and repair. We are passionate about helping to restore nerve function and quality of life to patients with peripheral nerve injuries by providing innovative, clinically proven and economically effective repair solutions for surgeons and health care providers. Peripheral nerves provide the pathways for both motor and sensory signals throughout the body. Every day, people suffer traumatic injuries or undergo surgical procedures that impact the function of their peripheral nerves. Damage to a peripheral nerve can result in the loss of muscle or organ function, the loss of sensory feeling, or the initiation of pain.

AxoGen's platform for nerve repair features a comprehensive portfolio of products, including Avance® Nerve Graft, an off-the-shelf processed human nerve allograft for bridging severed nerves without the comorbidities associated with a second surgical site, AxoGuard® Nerve Connector, a porcine submucosa extracellular matrix (ECM) coaptation aid for tensionless repair of severed nerves, AxoGuard® Nerve Protector, a porcine submucosa ECM product used to wrap and protect injured peripheral nerves and reinforce the nerve reconstruction while preventing soft tissue attachments, and Avive® Soft Tissue Membrane, a minimally processed human umbilical cord membrane that may be used as a resorbable soft tissue covering to separate tissue layers and modulate inflammation in the surgical bed. Along with these core surgical products, AxoGen also offers AcroVal® Neurosensory & Motor Testing System and AxoTouch® Two-Point Discriminator. These evaluation and measurement tools assist health care professionals in detecting changes in sensation, assessing return of sensory, grip, and pinch function, evaluating effective treatment interventions, and providing feedback to patients on nerve function. The AxoGen portfolio of products is available in the United States, Canada, the United Kingdom, and several other European and international countries.

#### **Forward-Looking Statements**

This press release contains "forward-looking" statements as defined in the Private Securities Litigation Reform Act of 1995. Forward-looking statements in this release include statements regarding the proposed public offering and the anticipated use of proceeds therefrom, and are subject to a number of risks and uncertainties that may cause actual results or outcomes to be materially different from those expressed or implied by the forward-looking statements. These risks and uncertainties include market risks and those relating to the satisfaction of customary closing conditions for an underwritten offering of securities, as well as the risks and uncertainties that could affect AxoGen's business and financial results described in the preliminary prospectus supplement and registration statements referenced above, as well as AxoGen's other filings with the Securities and Exchange Commission. Forward-looking statements are not guarantees of future performance, and actual results may differ materially from those projected. The forward-looking statements are representative only as of the date they are made and, except as required by law, AxoGen assumes no responsibility to update any forward-looking statements, whether as a result of new information, future events, or otherwise.

Contacts: AxoGen, Inc. Peter J. Mariani, Chief Financial Officer InvestorRelations@AxoGenInc.com

The Trout Group – Investor Relations Brian Korb 646.378.2923 bkorb@troutgroup.com

Source: AxoGen, Inc.



## AxoGen, Inc. Announces Pricing of Public Offering of Common Stock

ALACHUA, Fla., Nov. 16, 2017 (GLOBE NEWSWIRE) -- AxoGen, Inc. (NASDAQ:AXGN), a global leader in developing and marketing innovative surgical solutions for the repair of peripheral nerve damage, announced today that it has priced an underwritten public offering of its common stock. The offering consists of 700,000 shares being sold by AxoGen and 1,000,000 shares being sold by EW Healthcare Partners L.P., formerly named Essex Woodlands Fund IX L.P., the selling shareholder, at \$21.00 per share. In addition, AxoGen and the selling shareholder have granted the underwriters a 30-day option to purchase up to an aggregate of 255,000 shares of common stock at the same price. The offering is expected to close on or about November 20, 2017, subject to satisfaction of customary closing conditions.

AxoGen intends to use the net proceeds from the proposed offering for general corporate purposes. AxoGen will not receive any proceeds from the sale of shares by the selling shareholder.

Leerink Partners is acting as lead book-running manager for the offering. Cantor Fitzgerald & Co. and JMP Securities are acting as co-managers.

The shares of common stock are being offered and sold pursuant to effective shelf registration statements that AxoGen previously filed with the Securities and Exchange Commission. A final prospectus supplement and the accompanying prospectuses related to the offering are being filed with the SEC and will be available at the SEC's website located at www.sec.gov. When available, copies of the final prospectus supplement and the accompanying prospectuses relating to this offering may be obtained from Leerink Partners LLC, Attention: Syndicate Department, One Federal Street, 37th Floor, Boston, MA, 02110, by email at syndicate@leerink.com, or by telephone at (800) 808-7525, ext. 6132.

This press release shall not constitute an offer to sell or the solicitation of an offer to buy, nor shall there be any sale of these securities in any jurisdiction in which such offer, solicitation or sale would be unlawful prior to the registration or qualification under the securities laws of any such jurisdiction.

#### About AxoGen

AxoGen (AXGN) is the leading company focused specifically on the science, development and commercialization of technologies for peripheral nerve regeneration and repair. We

are passionate about helping to restore nerve function and quality of life to patients with peripheral nerve injuries by providing innovative, clinically proven and economically effective repair solutions for surgeons and health care providers. Peripheral nerves provide the pathways for both motor and sensory signals throughout the body. Every day, people suffer traumatic injuries or undergo surgical procedures that impact the function of their peripheral nerves. Damage to a peripheral nerve can result in the loss of muscle or organ function, the loss of sensory feeling, or the initiation of pain.

AxoGen's platform for nerve repair features a comprehensive portfolio of products, including Avance® Nerve Graft, an off-the-shelf processed human nerve allograft for bridging severed nerves without the comorbidities associated with a second surgical site, AxoGuard® Nerve Connector, a porcine submucosa extracellular matrix (ECM) coaptation aid for tensionless repair of severed nerves, AxoGuard® Nerve Protector, a porcine submucosa ECM product used to wrap and protect injured peripheral nerves and reinforce the nerve reconstruction while preventing soft tissue attachments, and Avive® Soft Tissue Membrane, a minimally processed human umbilical cord membrane that may be used as a resorbable soft tissue covering to separate tissue layers and modulate inflammation in the surgical bed. Along with these core surgical products, AxoGen also offers AcroVal® Neurosensory & Motor Testing System and AxoTouch® Two-Point Discriminator. These evaluation and measurement tools assist health care professionals in detecting changes in sensation, assessing return of sensory, grip, and pinch function, evaluating effective treatment interventions, and providing feedback to patients on nerve function. The AxoGen portfolio of products is available in the United States, Canada, the United Kingdom, and several other European and international countries.

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Contacts: AxoGen, Inc. Peter J. Mariani, Chief Financial Officer InvestorRelations@AxoGenInc.com

The Trout Group – Investor Relations Brian Korb 646.378.2923 bkorb@troutgroup.com

Source: AxoGen, Inc.



#### AxoGen Announces Closing of Public Offering of Common Stock

**ALACHUA**, **FL** – **Nov. 20, 2017** – AxoGen, Inc. (NASDAQ: AXGN), a global leader in developing and marketing innovative surgical solutions for peripheral nerve damage, today announced the closing of its previously announced underwritten public offering of 805,000 shares sold by AxoGen and 1,150,000 shares sold by EW Healthcare Partners L.P., formerly named Essex Woodlands Fund IX L.P., at a price to the public of \$21.00 per share. The number of shares sold by AxoGen and the selling shareholder include an aggregate of 255,000 shares of common stock offered and sold pursuant to an option granted to the underwriters that was exercised in full. The total net proceeds from the offering for AxoGen are estimated to be approximately \$15.4 million, after deducting underwriting discounts and commissions and other estimated offering expenses payable by AxoGen. AxoGen intends to use the net proceeds from the offering for general corporate purposes. AxoGen did not receive any proceeds from the sale of shares by the selling shareholder.

Leerink Partners acted as the sole book-running manager for the offering and Cantor Fitzgerald & Co. and JMP Securities acted as co-managers for the offering.

The offering was made pursuant to effective shelf registration statements that AxoGen previously filed with the U.S. Securities and Exchange Commission (the "SEC"). A final prospectus supplement describing the terms of the offering has been filed with the SEC. Copies of the final prospectus supplement and the accompanying prospectuses may be obtained from Leerink Partners LLC, Attention: Syndicate Department, One Federal Street, 37th Floor, Boston, MA, 02110, by email at syndicate@leerink.com, or by telephone at (800) 808-7525, ext. 6132.

This press release shall not constitute an offer to sell nor the solicitation of an offer to buy these securities, nor shall there be any sale of these securities in any state or other jurisdiction in which such offer, solicitation or sale would be unlawful prior to the registration or qualification under the securities laws of any such state or other jurisdiction.

#### About AxoGen

AxoGen (AXGN) is the leading company focused specifically on the science, development and commercialization of technologies for peripheral nerve regeneration and repair. We are passionate about helping to restore nerve function and quality of life to patients with peripheral nerve injuries by providing innovative, clinically proven and economically effective repair solutions for surgeons and health care providers. Peripheral nerves provide the pathways for both motor and sensory signals throughout the body. Every day, people suffer traumatic injuries or undergo surgical procedures that impact the function of their peripheral nerves. Damage to a peripheral nerve can result in the loss of muscle or organ function, the loss of sensory feeling, or the initiation of pain.

AxoGen's platform for nerve repair features a comprehensive portfolio of products, including Avance<sup>®</sup> Nerve Graft, an off-the-shelf processed human nerve allograft for bridging severed nerves without the

comorbidities associated with a second surgical site, AxoGuard® Nerve Connector, a porcine submucosa extracellular matrix (ECM) coaptation aid for tensionless repair of severed nerves, AxoGuard® Nerve Protector, a porcine submucosa ECM product used to wrap and protect injured peripheral nerves and reinforce the nerve reconstruction while preventing soft tissue attachments, and Avive® Soft Tissue Membrane, a minimally processed human umbilical cord membrane that may be used as a resorbable soft tissue covering to separate tissue layers and modulate inflammation in the surgical bed. Along with these core surgical products, AxoGen also offers AcroVal® Neurosensory & Motor Testing System and AxoTouch® Two-Point Discriminator. These evaluation and measurement tools assist health care professionals in detecting changes in sensation, assessing return of sensory, grip, and pinch function, evaluating effective treatment interventions, and providing feedback to patients on nerve function. The AxoGen portfolio of products is available in the United States, Canada, the United Kingdom, and several other European and international countries.

#### **Cautionary Statements Concerning Forward-Looking Statements**

This press release contains "forward-looking" statements as defined in the Private Securities Litigation Reform Act of 1995. These statements are based on management's current expectations or predictions of future conditions, events, or results based on various assumptions and management's estimates of trends and economic factors in the markets in which we are active, as well as our business plans. Words such as "expects," "anticipates," "intends," "plans," "believes," "seeks," "estimates," "projects," "forecasts," "continue," "may," "should," "will," and variations of such words and similar expressions are intended to identify such forward-looking statements. The forward-looking statements may include, without limitation, statements regarding our assessment on our internal control over financial reporting, our growth, our 2017 and 2018 guidance, product development, product potential, financial performance, sales growth, product adoption, market awareness of our products, data validation, our visibility at and sponsorship of conferences and educational events. The forward-looking statements are subject to risks and uncertainties, which may cause results to differ materially from those set forth in the statements. Forward-looking statements in this release should be evaluated together with the many uncertainties that affect AxoGen's business and its market, particularly those discussed in the risk factors and cautionary statements in AxoGen's filings with the Securities and Exchange Commission. Forward-looking statements are not guarantees of future performance, and actual results may differ materially from those projected. The forward-looking statements are representative only as of the date they are made and, except as required by law, AxoGen assumes no responsibility to update any forward-looking statements, whether as a result of new information, future events, or otherwise.

Contacts: AxoGen, Inc. Peter J. Mariani, Chief Financial Officer InvestorRelations@AxoGenInc.com

The Trout Group – Investor Relations Brian Korb 646.378.2923 bkorb@troutgroup.com



## Safe Harbor Statement

This Presentation contains "forward-looking" statements as defined in the Private Securities Litigation Reform Act of 1995. These statements are based on management's current expectations or predictions of future conditions, events, or results based on various assumptions and management's estimates of trends and economic factors in the markets in which we are active, as well as our business plans. Words such as "expects," "anticipates," "intends," "plans," "believes," "seeks," "estimates," "projects," "forecasts," "continue," "may," "should," "will," and variations of such words and similar expressions are intended to identify such forward-looking statements. The forward-looking statements may include, without limitation, statements regarding our assessment on our internal control over financial reporting, our growth, our 2017 and 2018 guidance, product development, product potential, financial performance, sales growth, product adoption, market awareness of our products, data validation, our visibility at and sponsorship of conferences and educational events.

The forward-looking statements are subject to risks and uncertainties, which may cause results to differ materially from those set forth in the statements. Forward-looking statements in this release should be evaluated together with the many uncertainties that affect AxoGen's business and its market, particularly those discussed in the risk factors and cautionary statements in AxoGen's filings with the Securities and Exchange Commission. Forward-looking statements are not guarantees of future performance, and actual results may differ materially from those projected. The forward-looking statements are representative only as of the date they are made and, except as required by law, AxoGen assumes no responsibility to update any forward-looking statements, whether as a result of new information, future events, or otherwise.



## **Event Agenda**

| Company Overview and Update  | Karen Zaderej                 | AxoGen<br>President and CEO                               |
|--|-------------------------------|---|
| Building a Platform for Nerve Repair<br>– Clinical perspectives      | Erick DeVinney                | AxoGen<br>VP of Clinical and Translational Science        |
| Peripheral Nerve Repair from Head to Toe                             | Dr. Ivica Ducic               | AxoGen Medical Director and<br>Washington Nerve Institute |
| Upper Extremity Nerve<br>Reconstruction                              | Dr. Kyle Eberlin              | Massachusetts General Hospital                            |
| Expanded Applications in Oral and Maxillofacial Nerve Reconstruction | Dr. John Zuniga               | UT Southwestern Medical Center                            |
| Expanded Applications in Breast<br>Reconstruction                    | Dr. Constance Chen            | Lenox Hill Hospital                                       |
| Panel Discussion and Q&A   | All Presenters                |   |
| Summary and Closing Statements                                       | Karen Zaderej<br>Pete Mariani | AxoGen<br>AxoGen  |
| time to rethink nerve repair.™                                       | 3                             | C AxoG  |





...Leading to a Potential Opportunity of Over 900,000 Nerve Repair Procedures in Multiple Surgical Specialties in the U.S. Alone





## Focus on Building Awareness Among Surgeons, Patients, and Investors



## **Emphasis on Education**

# 2016: 13 National Programs2017: 15 National Programs2018: 18 National Programs Expected

Educate on "best practices" of nerve repair
Local Grand Rounds and handling labs
Fellow education – training the next generation of surgeons, expect to train two-thirds of hand surgeon Fellows in 2018
Nerve Matters® – Online surgeon forum for sharing cases and techniques

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It's time to rethink nerve repair.™



Educate Surgeons evelop Advoca<u>te</u>s











## **Commercial Strategy** 20 to 25 Breast Neurotization Centers



## **Exploring Expanded Applications in Neuropathic Pain**



## **Neuromas Form Following Surgery or Trauma**





## **Strategy for Continued Growth**

Continue to build the AxoGen Platform for Nerve Repair by

- Increasing Market Awareness
- Educating Surgeons and Developing Advocates
- Growing the Body of Clinical Evidence
- Executing against our Sales Strategy
- Exploring Expanded Applications for existing products and Introducing New Products

We are excited to partner with surgeons to develop advanced procedures for the repair of peripheral nerves across an increasing range of applications.



## Delivering Strong Consistent Revenue Growth & Gross Margin

U.S. \$ in millions **Annual Revenue** Q3 Revenue 43% Growth 53% CAGR 6 Years of Double Digit Growth \$4.9 Q3 2017 2012 2013 2016 Q3 2016 2011 2014 2015 84.4% Gross Margin for the quarter ended September 30, 2017 AxoGen. It's time to rethink nerve repair.™ 20

## **Balance Sheet and Capital Structure**

| Balance Sheet Highlights                     | September 30, 2017 | Pro Forma*<br>September 30, 2017 |
|--|--------------------|----------------------------------|
| Cash   | \$22.0 million     | \$37.4 million                   |
| Debt   | \$25.0 million     | \$25.0 million                   |
| Capital Structure (shares)                   | September 30, 2017 | Pro Forma*<br>September 30, 2017 |
| Common Stock                                 | 33,393,804         | 34,198,804                       |
| Common Stock Options, RSUs, PSUs             | 4,484,447          | 4,484,447                        |
| Common Stock Warrants                        | 44,843             | 44,843                           |
| Common Stock and Common<br>Stock Equivalents | 37,923,094         | 38,728,094                       |

\*Pro forma amounts reflect the impact of the equity raise which closed on November 20, 2017 had the transactions taken place on September 30, 2017. The Company sold a total of 805,000 shares at \$21.00 and received proceeds, net of underwriters discounts and estimated offering expenses, of \$15.4 million.

<sup>11</sup>On October 26, 2016 the completed a \$31 million debt facility comprised of a \$21 million term loan and a revolving line of credit of up to \$10 million. The revolver may be increased at a later date to \$15 million dollars at our request, and with the approval of MidCap. Total Bank Debt at September 30, 2017 is comprised of the \$21 million term loan plus \$4 million borrowed on the revolving line of credit. The facility carries a 54 month term, with interest only payments on the term loan for the first 24 months. The interest rate on the term loan is 8.0% plus the greater of LIBOR or 0.5%, which resulted in a rate of 8.5 percent as of September 30, 2017. Borrowings under the revolving line of credit bear interest of 4.5% plus the greater of LIBOR or 0.5%, which resulted in a rate of 5.0 percent as of September 30, 2017.

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It's time to rethink nerve repair.™





## NASDAQ: AXGN

## Deloitte Technology Fast 500 : 2014, 2015, 2016, 2017 Russell 2000 Index : June 2016

It's time to rethink nerve repair.™



## **Footnotes**

Noble, et al., "Analysis of Upper and Lower Extremity Peripheral Narva Injuries in a Population of Patients with Multiple Injuries", Journal of Trauma, Vol 45, 2008 University of Maryland Medical Center, Carpal Tunnel Syndrome – Surgery. Friedman, "The Prophydietic Extraction of Third Molare A Public Health Instand," American Journal of Public Health, Vol 97, 2007 – Alhassani, "Inferior Alvedar Nerve Injury in Implant Dentistry: Diagnosis, Gauses, Prevention, and Management, Journal of Oral Implantology, Vol. 56, 2010 – Mille, et al., "Nerve Injuries after Denti Injection: A Review of the Literature", (Uol 72, 2006 - McDary, et al., <u>Ameloblatoms: a clinical review and trends in management</u>, Eur Arch Costninolaryng, Dio Jiol/2737); Takate J. Digit Schuller, Schuller Health, Vol 97, 2007 - Miller, et al., <u>Ameloblatoms: a clinical review and trends in management</u>, Eur Arch Costninolaryng, Dio Jiol/2737); Takate J. Digit Karate, J. Dia Multiple Injuries, Vol 72, 2008 - McDary, et al., <u>Ameloblatoms: a clinical review and trends in management</u>, Eur Arch Costninolaryng, Dio Jiol/2737); Takate J. Digit Multiple Schuller, Jones J. Schuler, Jones J. Schuler, Jones J. Schuller, Jones J. Schuller, Jo

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