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**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
WASHINGTON, D.C. 20549**

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**FORM 8-K**

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**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 5, 2019

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**XENON PHARMACEUTICALS INC.**

(Exact name of Registrant as Specified in Its Charter)

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**Canada**  
(State or Other Jurisdiction  
of Incorporation)

**001-36687**  
(Commission File Number)

**98-0661854**  
(IRS Employer  
Identification No.)

**200-3650 Gilmore Way**  
**Burnaby, British Columbia, Canada**  
(Address of Principal Executive Offices)

**V5G 4W8**  
(Zip Code)

**Registrant's Telephone Number, Including Area Code: (604) 484-3300**

**Not Applicable**  
(Former name or former address, if changed since last report)

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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 (see General Instruction A.2. below):

- 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))

Securities registered pursuant to Section 12(b) of the Act:

Title of each class	Trading Symbol(s)	Name of each exchange on which registered
Common Shares, without par value	XENE	The Nasdaq Stock Market LLC (The Nasdaq Global Market)

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

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.

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

On November 5, 2019, Xenon Pharmaceuticals Inc. (the “Company”) entered into an at-the-market equity offering sales agreement (the “Sales Agreement”) with Jefferies LLC (“Jefferies”) and Stifel, Nicolaus & Company, Incorporated (“Stifel”) to sell common shares of the Company having aggregate sales proceeds of up to \$50,000,000, from time to time, through an “at the market” equity offering program under which Jefferies and Stifel will act as sales agents (collectively referred to as the “Sales Agents” and each, individually, as a “Sales Agent”).

Under the Sales Agreement, the Company will set the parameters for the sale of common shares, including the number of common shares to be issued, the time period during which sales are requested to be made, limitation on the number of common shares that may be sold in any one trading day and any minimum price below which sales may not be made. Subject to the terms and conditions of the Sales Agreement, the Sales Agents may sell the common shares by methods deemed to be an “at the market offering” as defined in Rule 415(a)(4) promulgated under the Securities Act of 1933, as amended, including sales made directly on the Nasdaq Global Market, or on any other existing trading market for the common shares. In addition, with the Company’s prior written approval, the Sales Agents may also sell common shares by any other method permitted by law, including in negotiated transactions. Each Sales Agent will use its commercially reasonable efforts in conducting such sales activities consistent with its normal trading and sales practices, applicable state and federal laws, rules and regulations and the rules of the Nasdaq Stock Market LLC. The Sales Agreement may be terminated by the Company upon written notice to the Sales Agents for any reason. Each Sales Agent may terminate its participation in the Sales Agreement upon written notice to the parties for any reason. The Sales Agents may terminate the Sales Agreement upon written notice to the Company for any reason or at any time under certain circumstances, including but not limited to the occurrence of a material adverse change in the Company. Under the terms of the Sales Agreement, the Company may also sell common shares to each Sales Agent acting as principal for such Sales Agent’s own account at prices agreed upon at the time of sale.

The Sales Agreement provides that each Sales Agent will be entitled to compensation for its services of up to 3.0% of the gross sales price per common share of all common shares sold through such Sales Agent under the Sales Agreement. The Company has no obligation to sell any common shares under the Sales Agreement, and may at any time suspend solicitation and offers under the Sales Agreement. The Sales Agreement contains customary representations, warranties and agreements by the Company, indemnification obligations of the Company and the Sales Agents, other obligations of the parties and termination provisions. The representations, warranties and covenants contained in the Sales Agreement were made only for purposes of such agreement and, as of specific dates, were solely for the benefit of the parties to such agreement, and may be subject to limitations agreed upon by the contracting parties.

The common shares will be issued pursuant to the Company’s effective shelf registration statement on Form S-3 (File No. 333-233056), declared effective by the Securities and Exchange Commission (the “SEC”) on August 15, 2019. The Company intends to file a prospectus supplement with the SEC on or about November 5, 2019 in connection with the offer and sale of the common shares pursuant to the Sales Agreement.

The foregoing description of the Sales Agreement is not complete and is qualified in its entirety by reference to the full text of such agreement, a copy of which is filed as Exhibit 1.1 to this Current Report on Form 8-K and is incorporated herein by reference.

The legal opinion of Blake, Cassels & Graydon LLP relating to the common shares being offered is filed as Exhibit 5.1 to this Current Report on Form 8-K.

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

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**Item 9.01 Financial Statements and Exhibits.**

(d) Exhibits.

<b><u>Exhibit Number</u></b>	<b><u>Description</u></b>
1.1	<a href="#"><u>At-the-Market Equity Offering Sales Agreement dated as of November 5, 2019, by and among Xenon Pharmaceuticals Inc., Jefferies LLC and Stifel, Nicolaus &amp; Company, Incorporated.</u></a>
5.1	<a href="#"><u>Opinion of Blake, Cassels &amp; Graydon LLP.</u></a>
23.1	<a href="#"><u>Consent of Blake, Cassels &amp; Graydon LLP (included in Exhibit 5.1).</u></a>

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**SIGNATURES**

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.

**XENON PHARMACEUTICALS INC.**

Date: November 5, 2019

By: /s/ Ian Mortimer  
Ian Mortimer  
President & Chief Financial Officer

**XENON PHARMACEUTICALS INC.**  
**Common Shares**  
**AT-THE-MARKET EQUITY OFFERING SALES AGREEMENT**

November 5, 2019

JEFFERIES LLC  
520 Madison Avenue  
New York, New York 10022

STIFEL, NICOLAUS & COMPANY, INCORPORATED  
One South Street, 15<sup>th</sup> Floor  
Baltimore, Maryland 21202

Ladies and Gentlemen:

Xenon Pharmaceuticals Inc., a corporation continued under the federal laws of Canada (the "Company"), proposes, subject to the terms and conditions stated herein, to issue and sell from time to time to or through Jefferies LLC ("Jefferies") and Stifel, Nicolaus & Company, Incorporated ("Stifel Nicolaus"), as sales agents and/or principals (each individually an "Agent" and collectively, the "Agents"), common shares (the "Shares") of the Company, no par value per Share, having an aggregate offering price of up to \$50,000,000 on the terms set forth in Section 2 of this At-The-Market Equity Offering Sales Agreement (this "Agreement"). The Company agrees that whenever it determines to sell Shares directly to an Agent as principal, it will enter into a separate agreement (each, a "Terms Agreement") in substantially the form of Annex I hereto, relating to such sale in accordance with Section 3 of this Agreement.

Section 1. Representations and Warranties. The Company represents and warrants to each of the Agents that, unless such representation or warranty specifies otherwise, as of the date of this Agreement, any applicable Registration Statement Amendment Date (as defined in Section 3 below), each Company Periodic Report Date (as defined in Section 3 below), each Applicable Time (as defined in Section 1(a) below) and each Settlement Date (as defined in Section 2 below):

(a) Compliance with Registration Requirements. The Company has filed with the Securities and Exchange Commission (the “Commission”) a registration statement under the Securities Act of 1933, as amended (the “1933 Act”), on Form S-3 (File No. 333-233056), in respect of the Company’s Shares and other securities, not declared effective by the Commission earlier than three years prior to the date hereof; such registration statement, and any post-effective amendment thereto, has become effective, and no stop order suspending the effectiveness of such registration statement or any part thereof has been issued and no proceeding for that purpose has been initiated or, to the knowledge of the Company, threatened by the Commission (the base prospectus filed as part of such registration statement, in the form in which it has most recently been filed with the Commission on or prior to the date of this Agreement, is hereinafter called the “Basic Prospectus”; the various parts of such registration statement, including all exhibits thereto and any prospectus supplement relating to the Shares that is filed with the Commission and deemed by virtue of Rule 430B to be part of such registration statement, each as amended at the time such part of the registration statement became effective, including any post-effective amendments, thereto, are hereinafter collectively called the “Registration Statement”; the prospectus supplement specifically relating to the Shares prepared and filed with the Commission pursuant to Rule 424(b) under the 1933 Act is hereinafter called the “Prospectus Supplement”; the Basic Prospectus, as amended and supplemented by the Prospectus Supplement, is hereinafter called the “Prospectus”; any reference herein to the Basic Prospectus, the Prospectus Supplement or the Prospectus shall be deemed to refer to and include the documents incorporated by reference therein pursuant to Item 12 of Form S-3 under the 1933 Act; any reference to any amendment or supplement to the Basic Prospectus, the Prospectus Supplement or the Prospectus shall be deemed to refer to and include any post-effective amendment to the Registration Statement, any prospectus supplement relating to the Shares filed with the Commission pursuant to Rule 424(b) under the 1933 Act and any documents filed under the Securities Exchange Act of 1934, as amended (the “1934 Act”), and the rules and regulations of the Commission thereunder (the “1934 Act Regulations”), and incorporated therein, in each case after the date of the Basic Prospectus, the Prospectus Supplement or the Prospectus, as the case may be; any reference to any amendment to the Registration Statement shall be deemed to refer to and include any annual report of the Company filed pursuant to Section 13(a) or 15(d) of the 1934 Act after the effective date of the Registration Statement that is incorporated by reference in the Registration Statement; and any “issuer free writing prospectus” as defined in Rule 433 under the 1933 Act relating to the Shares is hereinafter called an “Issuer Free Writing Prospectus”).

No order preventing or suspending the use of the Basic Prospectus, the Prospectus Supplement, the Prospectus or any Issuer Free Writing Prospectus has been issued by the Commission, and the Basic Prospectus and the Prospectus Supplement, at the time of filing thereof, conformed in all material respects to the requirements of the 1933 Act and the rules and regulations of the Commission thereunder (the “1933 Act Regulations”) and did not contain an untrue statement of a material fact or 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.

For the purposes of this Agreement, the “Applicable Time” means, with respect to any Shares, the time of sale of such Shares pursuant to this Agreement; the Prospectus and the applicable Issuer Free Writing Prospectus(es) issued at or prior to such Applicable Time, taken together (collectively, and, with respect to any Shares, together with the public offering price of such Shares, the “General Disclosure Package”) as of each Applicable Time and each Settlement Date, will not include any untrue statement of a material fact or omit to state any material fact necessary in order to make the statements therein, in the light of the circumstances under which they were made, not misleading; and each applicable Issuer Free Writing Prospectus will not conflict with the information contained in the Registration Statement, the Prospectus Supplement or the Prospectus and each such Issuer Free Writing Prospectus, as supplemented by and taken together with the General Disclosure Package as of such Applicable Time, will not include any untrue statement of a material fact or omit to state any material fact necessary in order to make the statements therein, in the light of the circumstances under which they were made, not misleading.

(b) Incorporation of Documents by Reference. The documents incorporated or deemed to be incorporated by reference in the Registration Statement and the Prospectus, when they became effective or were filed with the Commission, as the case may be, complied in all material respects with the requirements of the 1934 Act and the 1934 Act Regulations, and, when read together with the other information in the Prospectus, (a) at the time the Registration Statement became effective, (b) at the time the Prospectus was issued and (c) on the date of this Agreement, did not contain 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.

(c) Authorization of Agreements. This Agreement and any Terms Agreement have been duly authorized, executed and delivered by the Company.

(d) Authorization of the Shares. The Shares have been duly authorized for issuance and sale pursuant to this Agreement and, when issued and delivered by the Company against payment therefor pursuant to this Agreement or any Terms Agreement, will be validly issued, fully paid and non-assessable, and the issuance and sale of the Shares is not subject to any preemptive rights, rights of first refusal or other similar rights to subscribe for or purchase the Shares.

(e) No Applicable Registration or Other Similar Rights. There are no persons with registration or other similar rights to have any equity or debt securities registered for sale under the Registration Statement or included in the offering contemplated by this Agreement, except for such rights as have been duly waived or expired.

(f) No Material Adverse Change. Except as otherwise disclosed in the Registration Statement, the General Disclosure Package and the Prospectus, subsequent to the respective dates as of which information is given in the Registration Statement, the General Disclosure Package and the Prospectus: (i) there has been no material adverse change, or any development that could reasonably be expected to result in a material adverse change, in the condition, financial or otherwise, or in the earnings, business, properties, operations, assets, liabilities or prospects, whether or not arising from transactions in the ordinary course of business, of the Company (any such change being referred to herein as a “Material Adverse Change”); (ii) the Company has not incurred any material liability or obligation, indirect, direct or contingent, including without limitation any losses or interference with its business from fire, explosion, flood, earthquakes, accident or other calamity, whether or not covered by insurance, or from any strike, labor dispute or court or governmental action, order or decree, that are material, individually or in the aggregate, to the Company or has entered into any transactions not in the ordinary course of business that are material, individually or in the aggregate, to the Company; and (iii) there has not been any material decrease in the share capital or any material increase in any short-term or long-term indebtedness of the Company and there has been no dividend or distribution of any kind declared, paid or made by the Company or any repurchase or redemption by the Company of any class of share capital.

(g) Independent Accountants. KPMG LLP, which has expressed its opinion with respect to the financial statements (which term as used in this Agreement includes the related notes thereto) filed with the Commission as a part of the Registration Statement, the General Disclosure Package and the Prospectus, is (i) an independent registered public accounting firm as required by the 1933 Act, the 1934 Act and the rules of the Public Company Accounting Oversight Board (“PCAOB”), (ii) in compliance with the applicable requirements relating to the qualification of accountants under Rule 2-01 of Regulation S-X under the 1933 Act, (iii) a registered public accounting firm as defined by the PCAOB whose registration has not been suspended or revoked and who has not requested such registration to be withdrawn and (iv) independent within the meaning of applicable Canadian securities laws.

(h) Financial Statements. The financial statements included or incorporated by reference in the Registration Statement, the General Disclosure Package and the Prospectus present fairly in all material respects the financial position of the Company as of the dates indicated and the results of its operations, changes in shareholders' equity and cash flows for the periods specified. Such financial statements have been prepared in conformity with generally accepted accounting principles as applied in the United States applied on a consistent basis throughout the periods involved, except as may be expressly stated in the related notes thereto and except unaudited financial statements, which are subject to normal year-end adjustment and do not contain certain footnotes as permitted by the applicable rules of the Commission. The interactive data in extensible Business Reporting Language included or 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. No other financial statements or supporting schedules are required to be included in the Registration Statement, the General Disclosure Package and the Prospectus. The financial data set forth in each of the Registration Statement, the General Disclosure Package and the Prospectus under the caption "Selected Financial Data" fairly present in all material respects the information set forth therein on a basis consistent with that of the audited financial statements contained in the Registration Statement, the General Disclosure Package and the Prospectus. All disclosures contained in the Registration Statement and the Prospectus and any Issuer Free Writing Prospectus, or incorporated by reference therein, that constitute non-GAAP financial measures (as defined by the rules and regulations under the 1933 Act and the 1934 Act) comply in all material respects with Regulation G under the 1934 Act and Item 10 of Regulation S-K under the 1933 Act, as applicable. To the Company's knowledge, no person who has been suspended or barred from being associated with a registered public accounting firm, or who has failed to comply with any sanction pursuant to Rule 5300 promulgated by the PCAOB, has participated in or otherwise aided the preparation of, or audited, the financial statements, supporting schedules or other financial data filed with the Commission as a part of the Registration Statement, the General Disclosure Package and the Prospectus.

(i) Accounting System. The Company makes and keeps accurate books and records and maintains a system of internal accounting controls sufficient to provide reasonable assurance that: (i) transactions are executed in accordance with management's general or specific authorization; (ii) transactions are recorded as necessary to permit preparation of financial statements in conformity with generally accepted accounting principles as applied in the United States and to maintain accountability for assets; (iii) access to assets is permitted only in accordance with management's general or specific authorization; (iv) the recorded accountability for assets is compared with existing assets at reasonable intervals and appropriate action is taken with respect to any differences and (v) the interactive data in extensible Business Reporting Language included or 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.

(j) Disclosure Controls and Procedures; Deficiencies in or Changes to Internal Control Over Financial Reporting Except as otherwise disclosed in the Registration Statement, the General Disclosure Package and the Prospectus, the Company has established and maintains disclosure controls and procedures (as defined in Rules 13a-15 and 15d-15 under the 1934 Act), which (i) are designed to ensure that material information relating to the Company, is made known to the Company's principal executive officer and its principal financial officer by others within those entities, particularly during the periods in which the periodic reports required under the 1934 Act are being prepared; (ii) have been evaluated by management of the Company for effectiveness as of the end of the Company's most recent fiscal quarter; and (iii) are effective in all material respects at the reasonable assurance level to perform the functions for which they were established. The Company has carried out evaluations of the effectiveness of their disclosure controls and procedures as required by Rule 13a-15 of the 1934 Act. Except as otherwise disclosed in the Registration Statement, the General Disclosure Package and the Prospectus, since the end of the Company's most recent audited fiscal year, there have been no significant deficiencies or material weakness in the Company's internal control over financial reporting (whether or not remediated) and no change in the Company's internal control over financial reporting that has materially affected, or is reasonably likely to materially affect, the Company's internal control over financial reporting. Except as otherwise disclosed in the Registration Statement, the General Disclosure Package and the Prospectus, the Company is not aware of any change in its internal control over financial reporting that has occurred during its most recent fiscal quarter that has materially affected, or is reasonably likely to materially affect, the Company's internal control over financial reporting.



(k) Incorporation and Good Standing of the Company. The Company has been duly continued and is validly existing as a corporation in good standing under the Canada Business Corporations Act and is up-to-date in all material corporate filings and has the corporate power and capacity 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 to enter into and perform its obligations under this Agreement.

(l) Subsidiaries. Except as otherwise disclosed in the Registration Statement, the General Disclosure Package and the Prospectus, other than Xenon Pharmaceuticals USA Inc., the Company's wholly-owned subsidiary, the Company does not own or control, directly or indirectly, any corporation, association or other entity.

(m) Capitalization and Other Share Capital Matters. The authorized, issued and outstanding share capital of the Company is as set forth in the Registration Statement, the General Disclosure Package and the Prospectus (other than for subsequent issuances, if any, pursuant to employee benefit plans, or upon the exercise of outstanding options, warrants or rights, in each case as described in the Registration Statement, the General Disclosure Package and the Prospectus). The attributes of the Shares are consistent in all material respects to the description thereof contained in the General Disclosure Package. All of the issued and outstanding Shares have been duly authorized and validly issued, are fully paid and non-assessable and have been issued in compliance, in all material respects, with all U.S. and Canadian federal, state, provincial and local securities laws. None of the outstanding Shares was issued in violation of any preemptive rights, rights of first refusal or other similar rights to subscribe for or purchase securities of the Company. There are no authorized or outstanding options, warrants, preemptive rights, rights of first refusal or other rights to purchase, or equity or debt securities convertible into or exchangeable or exercisable for, any share capital of the Company other than those described in the Registration Statement, the General Disclosure Package and the Prospectus. The descriptions of the Company's stock option, stock bonus and other stock plans or arrangements, and the options or other rights granted thereunder, set forth in the Registration Statement, the General Disclosure Package and the Prospectus accurately and fairly present in all material respects the information required to be shown with respect to such plans, arrangements, options and rights.

(n) Stock Exchange Listing. The Shares are registered pursuant to Section 12(b) or 12(g) of the 1934 Act and are listed on The Nasdaq Global Market (the "Nasdaq"), and the Company has taken no action designed to, or likely to have the effect of, terminating the registration of the Shares under the 1934 Act or delisting the Shares from the Nasdaq, nor has the Company received any notification that the Commission or the Nasdaq is contemplating terminating such registration or listing. Except as otherwise disclosed in the Registration Statement, the General Disclosure Package and the Prospectus, to the Company's knowledge, it is in compliance with all applicable listing requirements of the Nasdaq.

(o) Non-Contravention of Existing Instruments; No Further Authorizations or Approvals Required The Company is not in violation of its articles of continuance or by-laws and is not in default (nor, with the giving of notice or lapse of time, would it be in default) (Default) under any indenture, loan, credit agreement, note, lease, license agreement, contract, franchise or other instrument (including, without limitation, any pledge agreement, security agreement, mortgage or other instrument or agreement evidencing, guaranteeing, securing or relating to indebtedness) to which the Company is a party or by which it may be bound, or to which any of its properties or assets are subject (each, an Existing Instrument), except for such Defaults as could not reasonably be expected, individually or in the aggregate, to have a material adverse effect on the condition (financial or otherwise), earnings, business, properties, operations, assets, liabilities or prospects of the Company (a Material Adverse Effect). The Company's execution, delivery and performance of this Agreement or any Terms Agreement, consummation of the transactions contemplated hereby and by the Registration Statement, the General Disclosure Package and the Prospectus and the issuance and sale of the Shares (including the use of proceeds from the sale of the Shares as described in the Registration Statement, the General Disclosure Package and the Prospectus under the caption "Use of Proceeds") (i) have been duly authorized by all necessary corporate action and will not result in any violation of the provisions of the articles of continuance or by-laws of the Company, (ii) will not conflict with or constitute a breach of, or Default or a Debt Repayment Triggering Event (as defined below) under, or result in the creation or imposition of any lien, charge or encumbrance upon any property or assets of the Company pursuant to, or require the consent of any other party to, any Existing Instrument and (iii) will not result in any violation of any law, administrative regulation or administrative or court decree applicable to the Company, except for such conflicts, breaches, Defaults or Debt Repayment Triggering Events or liens, charges, encumbrances or violations specified in subsection (ii) and (iii) above that could not, individually or in the aggregate, reasonably be expected to have a Material Adverse Effect. No consent, approval, authorization or other order of, or registration or filing with, any court or other governmental or regulatory authority or agency, is required for the Company's execution, delivery and performance of this Agreement or any Terms Agreement and consummation of the transactions contemplated hereby and by the Registration Statement, the General Disclosure Package and the Prospectus, except for the filing of the Prospectus Supplement and accompanying current report on Form 8-K or such as have been obtained or made by the Company and are in full force and effect under the 1933 Act, applicable Canadian securities laws and such as may be required under applicable state securities or blue sky laws, applicable Canadian securities laws, Industry Canada, the Financial Industry Regulatory Authority, Inc. ("FINRA") or Nasdaq. As used herein, a "Debt Repayment Triggering Event" means any event or condition which gives, or with the giving of notice or lapse of time would give, 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.

(p) Compliance with Laws. The Company has been and is in compliance with all applicable laws, rules and regulations, except where failure to be so in compliance could not reasonably be expected, individually or in the aggregate, to have a Material Adverse Effect.

(q) No Material Actions or Proceedings. Except as otherwise disclosed in the Registration Statement, the General Disclosure Package and the Prospectus, there is no action, suit, proceeding, inquiry or investigation brought by or before any governmental entity now pending or, to the knowledge of the Company, threatened, against or affecting the Company, which could reasonably be expected, individually or in the aggregate, to have a Material Adverse Effect or materially and adversely affect the consummation of the transactions contemplated by this Agreement or any Terms Agreement or the performance by the Company of its obligations hereunder; and the aggregate of all pending legal or governmental proceedings to which the Company is a party or of which any of its properties or assets is the subject, including ordinary routine litigation incidental to the business, if determined adversely to the Company, could not reasonably be expected to have a Material Adverse Effect. No material labor dispute with the employees of the Company, or with the employees of any principal supplier, manufacturer, customer or contractor of the Company, exists or, to the knowledge of the Company, is threatened or imminent.

(r) Intellectual Property Rights. Except as otherwise disclosed in the Registration Statement, the General Disclosure Package and the Prospectus, the Company owns, or has obtained valid and enforceable licenses for all inventions, patent applications, patents, trademarks, trade names, service names, copyrights, trade secrets and other intellectual property described in the Registration Statement, the General Disclosure Package and the Prospectus as being owned or licensed by them or which are necessary in all material respects for the conduct of its business as currently conducted or as currently proposed to be conducted (collectively, "Intellectual Property"). To the Company's knowledge, except as could not reasonably be expected, individually or in the aggregate, to have a Material Adverse Effect: (i) there are no third parties who have rights to any Intellectual Property, except for customary reversionary rights of third-party licensors or co-ownership rights with respect to Intellectual Property that are disclosed in the Registration Statement, the General Disclosure Package and the Prospectus as being subject to a third party's joint ownership interest or as being licensed to the Company; and (ii) there is no infringement by third parties of any Intellectual Property. Except as could not reasonably be expected, individually or in the aggregate, to have a Material Adverse Effect, there is no pending or, to the Company's knowledge, threatened action, suit, proceeding or claim by others: (A) challenging the Company's 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; (B) 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; or (C) asserting that the Company infringes or otherwise violates, or would, upon the commercialization of any product or service described in the Registration Statement, the General Disclosure Package and the Prospectus as under development, infringe or violate, any patent, trademark, trade name, service name, copyright, trade secret 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. The Company has complied in all material respects with the terms of each agreement pursuant to which Intellectual Property has been licensed to the Company, and all such agreements are in full force and effect as to the Company and to the Company's knowledge as to the other parties to such agreements. Except as otherwise disclosed in the Registration Statement, the General Disclosure Package and the Prospectus, the product candidates described in the Registration Statement, the General Disclosure Package and the Prospectus as under development by the Company fall within the scope of the claims of one or more patents or patent applications owned by, or exclusively licensed to, the Company.

(s) All Necessary Permits, etc. The Company possesses such valid and current certificates, authorizations or permits required by state, federal, provincial or foreign regulatory agencies or bodies to conduct its business as currently conducted and as described in the Registration Statement, the General Disclosure Package and the Prospectus ("Permits"), except where the failure to so possess could not reasonably be expected to, individually or in the aggregate, have a Material Adverse Effect. The Company is not in violation of, or in default under, any of the Permits, except for such violations or defaults as could not reasonably be expected, individually or in the aggregate, to have a Material Adverse Effect, and has not received any notice of proceedings relating to the revocation or modification of, or non-compliance with, any such certificate, authorization or permit, which, individually or in the aggregate, if the subject of an unfavorable decision, ruling or finding, would reasonably be expected to, individually or in the aggregate, result in a Material Adverse Effect.

(t) Title to Properties. Except as otherwise disclosed in the Registration Statement, the General Disclosure Package and the Prospectus, the Company has good and marketable title to all of the real and personal property and other assets reflected as owned in the financial statements referred to in Section 1(h) above (or elsewhere in the Registration Statement, the General Disclosure Package or the Prospectus), in each case free and clear of any security interests, mortgages, liens, encumbrances, equities, adverse claims and other defects except such as do not, individually or in the aggregate, materially affect the value of such property and do not interfere with the use made and proposed to be made of such property by the Company. The real property, improvements, equipment and personal property held under lease by the Company are held under valid and enforceable leases, with such exceptions as are not material and do not materially interfere with the use made or proposed to be made of such real property, improvements, equipment or personal property by the Company.

(u) Tax Law Compliance. The Company has filed all material federal, state, provincial and foreign income and franchise tax returns required to be filed by it or has properly requested extensions thereof and has paid all taxes which are required to have been paid by it and, if due and payable, any related or similar assessment, fine or penalty levied against it except as may be being contested in good faith and by appropriate proceedings. To the extent required by generally accepted accounting principles as applied in the United States, the Company has made adequate charges, accruals and reserves in the applicable financial statements referred to in Section 1(h) above in respect of all federal, state, provincial and foreign income and franchise taxes for all periods as to which the tax liability of the Company has not been finally determined. No stamp, capital or other issuance, registration, transfer or withholding tax or duty (in the case of such withholding tax, only to the extent that no services were rendered in Canada by a person not resident in Canada for the purposes of the *Income Tax Act* (Canada) (or by a partnership other than a Canadian partnership within the meaning of the *Income Tax Act* (Canada)) by or on behalf of the Agents is payable in Canada by or on behalf of the Agents to the Government of Canada or the Government of British Columbia or any political subdivision thereof or any authority or agency thereof or therein having the power to tax in connection with (i) the issuance, sale and delivery of the Shares by the Company to or for the account of the Agents; (ii) the purchase from the Company, and the initial sale and delivery by the Agents of the Shares to purchasers thereof; or (iii) the execution and delivery of this Agreement or any Term Agreement or any other document to be furnished hereunder.

(v) Insurance. The Company is insured by recognized, financially sound and reputable institutions with policies in such amounts and with such deductibles and covering such risks as the Company reasonably believes are generally deemed adequate and customary for companies engaged in similar businesses including, but not limited to, policies covering real and personal property owned or leased by the Company against theft, damage, destruction, acts of vandalism and earthquakes and policies covering the Company for product liability claims and clinical trial liability claims. The Company has no reason to believe that it will not be able (i) to renew its existing insurance coverage as and when such policies expire or (ii) 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 could not reasonably be expected to have a Material Adverse Effect. The Company has not been denied any insurance coverage which it has sought or for which it has applied.

(w) Compliance with Environmental Laws. Except as could not reasonably be expected, individually or in the aggregate, to have a Material Adverse Effect: (i) the Company is not in violation of any federal, state, provincial, 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 (collectively, "Hazardous Materials") or to the manufacture, processing, distribution, use, treatment, storage, disposal, transport or handling of Hazardous Materials (collectively, "Environmental Laws"); (ii) the Company has all permits, authorizations and approvals required under any applicable Environmental Laws and is in compliance with their requirements; (iii) 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; and (iv) to the knowledge of the Company, there are no events or circumstances existing as of the date hereof that might 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 body or agency, against or affecting the Company relating to Hazardous Materials or any Environmental Laws.

(x) Periodic Review of Costs of Environmental Compliance. There are no costs and liabilities related to Environmental Laws (including, without limitation, any capital or operating expenditures required for clean-up, closure of properties or compliance with Environmental Laws or any permit, license or approval, any related constraints on operating activities and any potential liabilities to third parties) that have come to the Company's attention that could reasonably be expected, individually or in the aggregate, to have a Material Adverse Effect.

(y) ERISA Compliance. The Company and any “employee benefit plan” (as defined under the Employee Retirement Income Security Act of 1974, as amended, and the regulations and published interpretations thereunder (collectively, “ERISA”)) established or maintained by the Company or its “ERISA Affiliates” (as defined below) are in compliance in all material respects with ERISA. “ERISA Affiliate” means, with respect to the Company, any member of any group of organizations described in Sections 414(b), (c), (m) or (o) of the Internal Revenue Code of 1986, as amended, and the regulations and published interpretations thereunder (the “Code”) of which the Company is a member. Except as could not reasonably be expected, individually or in the aggregate, to have a Material Adverse Effect, (i) no “reportable event” (as defined under ERISA) has occurred or is reasonably expected to occur with respect to any “employee benefit plan” established or maintained by the Company or any of its ERISA Affiliates; (ii) no “employee benefit plan” established or maintained by the Company or any of its ERISA Affiliates, if such “employee benefit plan” were terminated, would have any “amount of unfunded benefit liabilities” (as defined under ERISA); and (iii) neither the Company nor any of its ERISA Affiliates has incurred or reasonably expects to incur (A) any liability under Title IV of ERISA with respect to termination of, or withdrawal from, any “employee benefit plan”, (B) any liability under Sections 412 or 4971 of the Code or (C) any material liability under Section 4975 or 4980B of the Code.

(z) Company Not an “Investment Company”. The Company is not, and will not be, either after receipt of payment for the Shares or after the application of the proceeds therefrom as described under “Use of Proceeds” in the Registration Statement, the General Disclosure Package and the Prospectus, required to register as an “investment company” under the Investment Company Act of 1940, as amended (the “Investment Company Act”).

(aa) No Price Stabilization or Manipulation; Compliance with Regulation M. The Company has not taken, directly or indirectly, any action designed to or that might reasonably be expected to cause or result in stabilization or manipulation of the price of the Shares or of any “reference security” (as defined in Rule 100 of Regulation M under the 1934 Act (“Regulation M”)) with respect to the Shares, whether to facilitate the sale or resale of the Shares or otherwise, and has taken no action which would directly or indirectly violate Regulation M.

(bb) Related-Party Transactions. There are no business relationships or related-party transactions involving the Company or any other person required to be described in the Registration Statement, the General Disclosure Package or the Prospectus that have not been described as required.

(cc) FINRA Matters. All of the information provided to the Agents or to counsel for the Agents related to FINRA matters by the Company and its officers and directors is true, complete and correct in all material respects. The Company meets the requirements for use of Form S-3 under the Securities Act specified in FINRA Rule 5110(b)(7)(C)(i).

(dd) Statistical and Market-Related Data. All statistical, demographic and market-related data included in the Registration Statement, 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. To the extent required, the Company has obtained the written consent to the use of such data from such sources.

(ee) No Unlawful Contributions or Other Payments. Neither the Company nor, to the Company’s knowledge, any employee or agent of the Company, has made any contribution or other payment to any official of, or candidate for, any federal, state or foreign office in violation of any law or of the character required to be disclosed in the Registration Statement, the General Disclosure Package or the Prospectus.

(ff) Foreign Corrupt Practices Act. Neither the Company nor, to the knowledge of the Company, any director, officer, agent, employee, affiliate or other person acting on behalf of the Company has, in the course of its actions for, or on behalf of, the Company (i) used any corporate funds for any unlawful contribution, gift, entertainment or other unlawful expenses relating to political activity; (ii) made any direct or indirect unlawful payment to any domestic government official, “foreign official” (as defined in the U.S. Foreign Corrupt Practices Act of 1977, as amended, and the rules and regulations thereunder (collectively, the “FCPA”)) or employee from corporate funds; (iii) violated or is in violation of any applicable provision of the FCPA or any applicable non-U.S. anti-bribery statute or regulation; or (iv) made any unlawful bribe, rebate, payoff, influence payment, kickback or other unlawful payment to any domestic government official, such foreign official or employee; and the Company and, to the knowledge of the Company, the Company’s affiliates have conducted their business in compliance with the applicable provisions of the FCPA and maintain policies and procedures designed to ensure, and which are reasonably expected to continue to ensure, continued compliance therewith.

(gg) Money Laundering Laws. The operations of the Company 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 applicable jurisdictions, the rules and regulations thereunder and any related or similar applicable rules, regulations or guidelines, issued, administered or enforced by any governmental agency (collectively, the “Money Laundering Laws”) and no action, suit or proceeding by or before any court or governmental agency, authority or body or any arbitrator involving the Company with respect to the Money Laundering Laws is pending or, to the knowledge of the Company, threatened.

(hh) OFAC. Neither the Company nor, to the knowledge of the Company, any director, officer, agent, employee, affiliate or person acting on behalf of the Company is currently subject to any U.S. sanctions administered by the Office of Foreign Assets Control of the U.S. Treasury Department (“OFAC”); and the Company will not directly or indirectly use the proceeds of this offering, or lend, contribute or otherwise make available such proceeds to any subsidiary, or any joint venture partner or other person or entity, for the purpose of financing the activities of or business with any person, or in any country or territory, that currently is subject to any U.S. sanctions administered by OFAC 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 U.S. sanctions administered by OFAC.

(ii) Brokers. Except pursuant to this Agreement or any Terms Agreement, there is no broker, finder or other party that is entitled to receive from the Company any brokerage or finder’s fee or other fee or commission as a result of any transactions contemplated by this Agreement or any Terms Agreement.

(jj) Forward-Looking Statements. Each financial or operational projection or other “forward-looking statement” (as defined by Section 27A of the 1933 Act or Section 21E of the 1934 Act) contained in the Registration Statement, the General Disclosure Package or the Prospectus (i) was so included by the Company in good faith and with reasonable basis after due consideration by the Company of the underlying assumptions, estimates and other applicable facts and circumstances and (ii) is accompanied by meaningful cautionary statements identifying those factors that could reasonably be expected to cause actual results to differ materially from those in such forward-looking statement. No such statement was made with the knowledge of an executive officer or director of the Company that it was false or misleading.

(kk) No Outstanding Loans or Other Extensions of Credit. The Company does not have any outstanding extension of credit, in the form of a personal loan, to or for any director or executive officer (or equivalent thereof) of the Company except for such extensions of credit as are expressly permitted by Section 13(k) of the 1934 Act.

(ll) Emerging Growth Company Status. From the time of initial confidential submission of the registration statement relating to the Company’s initial public offering to the Commission (or, if earlier, the first date on which the Company engaged in any Section 5(d) Written Communication or any Section 5(d) Oral Communication) through the date of this Agreement, the Company has been and is an “emerging growth company,” as defined in Section 2(a) of the 1933 Act (an “Emerging Growth Company”).

(mm) Clinical Data and Regulatory Compliance. The preclinical tests and clinical trials, and other studies (collectively, “studies”) that are described in the Registration Statement, the General Disclosure Package or the Prospectus were and, if still pending, are, to the Company’s knowledge, being conducted in all material respects in accordance with the protocols, procedures and controls designed and approved for such studies; each description of the results of such studies is, to the Company’s knowledge, accurate and complete in all material respects and fairly presents the data derived from such studies, and the Company has no knowledge of any other studies the results of which are inconsistent with, or otherwise call into question, the results described or referred to in the Registration Statement, the General Disclosure Package or the Prospectus; the Company has made all such filings and obtained all such approvals as may be required by the Food and Drug Administration of the U.S. Department of Health and Human Services or any committee thereof or from any other U.S. or foreign government or drug or medical device regulatory agency, or health care facility Institutional Review Board (collectively, the “Regulatory Agencies”), except as could not be reasonably expected, individually or in the aggregate, to have a Material Adverse Effect; the Company has not received any notice of, or correspondence from, any Regulatory Agency requiring the termination, suspension or material modification of any clinical trials that are described or referred to in the Registration Statement, the General Disclosure Package or the Prospectus; and the Company has operated and currently is in compliance in all material respects with all applicable rules and regulations of the Regulatory Agencies.

(nn) Compliance with Health Care Laws. The Company is, and at all times has been, in compliance in all material respects with all Health Care Laws. For purposes of this Agreement, “Health Care Laws” means: (i) the Federal Food, Drug, and Cosmetic Act and the regulations promulgated thereunder; (ii) all applicable federal, state, local and all applicable foreign health care related fraud and abuse laws, including, without limitation, the U.S. Anti-Kickback Statute (42 U.S.C. Section 1320a-7b(b)), the Anti-Inducement Law (42 U.S.C. § 1320a-7a(a)(5)), the U.S. Civil False Claims Act (31 U.S.C. Section 3729 et seq.), all applicable federal, state, local and all applicable foreign criminal laws relating to health care fraud and abuse, including but not limited to 18 U.S.C. Sections 286 and 287, and the health care 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, the statutes, regulations and directives of applicable government funded or sponsored healthcare programs, and the regulations promulgated pursuant to such statutes; (iii) the Standards for Privacy of Individually Identifiable Health Information (the “Privacy Rule”), the Security Standards, and the Standards for Electronic Transactions and Code Sets promulgated under HIPAA, the Health Information Technology for Economic and Clinical Health Act (42 U.S.C. Section 17921 et seq.), and the regulations promulgated thereunder and any applicable state or foreign counterpart thereof or other applicable law or regulation the purpose of which is to protect the privacy of individuals or prescribers; (iv) the Patient Protection and Affordable Care Act of 2010, as amended by the Health Care and Education Affordability Reconciliation Act of 2010, the regulations promulgated thereunder; (v) the U.S. Controlled Substances Act (21 U.S.C. Section 801 et seq.); (vi) quality, safety and accreditation requirements under applicable federal, state, local or foreign laws or regulatory bodies; and (vii) all other local, state, federal, national, supranational and foreign laws, applicable to the regulation of the Company. The Company has not received written notice of any claim, action, suit, proceeding, hearing, enforcement, investigation, arbitration or other 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 nor, to the Company’s knowledge, is any such claim, action, suit, proceeding, hearing, enforcement, investigation, arbitration or other action threatened. The Company has filed, maintained or submitted all material reports, documents, forms, notices, applications, records, claims, submissions and supplements or amendments as required by any Health Care Laws, and, to the Company’s knowledge, all such reports, documents, forms, notices, applications, records, claims, submissions and supplements or amendments were complete and accurate on the date filed in all material respects (or were corrected or supplemented by a subsequent submission). The Company is not a party to any corporate integrity agreements, monitoring agreements, consent decrees, settlement orders, or similar agreements related to enforcement actions with or imposed by any governmental or regulatory authority. Additionally, neither the Company nor any of its respective employees, officers or directors has been excluded, suspended or debarred from participation in any U.S. 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, or exclusion.

(oo) No Contract Terminations. Except as otherwise disclosed in the Registration Statement, the General Disclosure Package and the Prospectus, the Company has not sent or received any communication regarding termination of, or intent not to renew, any of the contracts or agreements referred to or described in the Prospectus or any Issuer Free Writing Prospectus, or referred to or described in, or filed as an exhibit to, the Registration Statement, or any document incorporated by reference therein, and no such termination or non-renewal has been threatened by the Company or, to the Company's knowledge, any other party to any such contract or agreement, which threat of termination or non-renewal has not been rescinded as of the date hereof.

(pp) Submission to Jurisdiction. The Company has the power to submit, and pursuant to Section 16 of this Agreement, has legally, validly, effectively and irrevocably submitted, to the personal jurisdiction of each United States federal court and New York state court located in the Borough of Manhattan, in the City of New York, New York, U.S.A. (each, a "New York Court"), and the Company has the power to designate, appoint and authorize, and pursuant to Section 16 of this Agreement, has legally, validly, effectively and irrevocably designated, appointed and authorized an agent for service of process in any action arising out of or relating to this Agreement or any Terms Agreement or the Shares in any New York Court, and service of process effected on such authorized agent will be effective to confer valid personal jurisdiction over the Company as provided in Section 16 hereof.

(qq) Accuracy of Exhibits. There are no contracts or documents which are required to be described in the Registration Statement or the Prospectus or the documents incorporated by reference therein or to be filed as exhibits thereto which have not been so described and filed as required.

(rr) S-3 Eligibility. (A)(i) At the time of filing the Registration Statement and (ii) at the time of the most recent amendment thereto for the purposes of complying with Section 10(a)(3) of the 1933 Act (whether such amendment was by post-effective amendment, incorporated report filed pursuant to Section 13 or 15(d) of the 1934 Act or form of prospectus), the Company met the then applicable requirements for use of Form S-3 under the 1933 Act (including but not limited General Instruction I.B.1 or I.B.6, as applicable) and (B) at the earliest time after the filing of the Registration Statement that the Company or another offering participant made a bona fide offer (within the meaning of Rule 164(h)(2) under the 1933 Act) of the Shares, the Company was not an "ineligible issuer" as defined in Rule 405 under the 1933 Act. The aggregate market value of the outstanding voting and non-voting common equity (as defined in 1933 Act Rule 405) of the Company held by persons other than affiliates of the Company (pursuant to 1933 Act Rule 144, those that directly, or indirectly through one or more intermediaries, control, or are controlled by, or are under common control with, the Company) (the "Non-Affiliate Shares"), was equal to or greater than \$75 million (calculated by multiplying (x) the highest price at which the common shares of the Company closed on the Nasdaq within 60 days of the date of this Agreement times (y) the number of Non-Affiliate Shares). As of the date of this Agreement, the Company satisfies the pre-1992 eligibility requirements for the use of a registration statement on Form S-3 in connection with this offering (the pre-1992 eligibility requirements for the use of the registration statement on Form S-3 include (i) having a non-affiliate, public common equity float of at least \$150 million or a non-affiliate, public common equity float of at least \$100 million and annual trading volume of at least three million shares and (ii) having been subject to the Exchange Act reporting requirements for a period of 36 months).

(ss) Deemed Representation. Any certificate signed by any officer of the Company delivered to the Agents or to counsel for the Agents pursuant to or in connection with this Agreement or any Terms Agreement shall be deemed a representation and warranty by the Company to the Agents as to the matters covered thereby as of the date or dates indicated in such certificate.

(tt) Compliance with the Sarbanes-Oxley Act. 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 (the "Sarbanes-Oxley Act"), including Section 402 related to loans and Sections 302 and 906 related to certifications.



(uu) Cybersecurity; Data Protection. The Company and its subsidiaries' information technology assets and equipment, computers, systems, networks, hardware, software, websites, applications, and databases (collectively, "IT Systems") are adequate for, and operate and perform in all material respects as required in connection with the operation of the business of the Company and its subsidiaries as currently conducted and, to the Company's knowledge, based on commercially reasonable security and monitoring, free and clear of all material bugs, errors, defects, Trojan horses, time bombs, malware and other corruptants. The Company and its subsidiaries have, at all times, implemented and maintained commercially reasonable controls, policies, procedures, and safeguards to maintain and protect their material confidential information and the integrity, continuous operation, redundancy and security of all IT Systems and data (including all personal data and sensitive, confidential or regulated data (collectively, the "Confidential Data")) used in connection with their businesses, and, to the Company's knowledge, based on commercially reasonable security and monitoring, there have been no breaches, violations, outages or unauthorized uses of or accesses to same, except for those that have been remedied without material cost or liability or the duty to notify any other person, nor any incidents under internal review or investigations relating to the same and except as would not individually or in the aggregate have a Material Adverse Effect on the Company and its subsidiaries, taken as a whole. The Company and its subsidiaries are presently in material compliance with all applicable laws or statutes and all judgments, orders, rules and regulations of any court or arbitrator or governmental or regulatory authority, internal policies and contractual obligations relating to the privacy and security of IT Systems and Confidential Data and to the protection of such IT Systems and Confidential Data from unauthorized use, access, misappropriation or modification, except where failure to do so would not reasonably be expected to have a Material Adverse Effect on the Company and its subsidiaries, taken as a whole.

(vv) Compliance with Data Privacy Laws. The Company and its subsidiaries are, and at all prior times were, in compliance in all material respects with all applicable data privacy and security laws and regulations, including without limitation HIPAA and the European Union General Data Protection Regulation ("GDPR") (EU 2016/679) (collectively, the "Privacy Laws"). The Company and its subsidiaries have in place and comply in all material respects with policies and procedures relating to data privacy and security and the collection, use, disclosure and other processing of Personal Data (the "Policies"). The Company and its subsidiaries have at all times made all disclosures to users or customers required for compliance in all material respects with applicable Privacy Laws and none of such disclosures made or contained in any Policy have, to the knowledge of the Company, been inaccurate, deceptive, or misleading in any material respect or in material violation of any applicable Privacy Laws. Neither the Company nor any subsidiary has received written notice of any claim, action, suit, proceeding, hearing, enforcement, investigation, arbitration or other action from or by any court or arbitrator or governmental or regulatory authority or third party alleging any violation of any Privacy Laws or Policies and, to the Company's knowledge, is no such claim, action, suit, proceeding, hearing, enforcement, investigation, arbitration or other action is threatened.

The Company has a reasonable basis for making each of the representations set forth in this Section 1. The Company acknowledges that the Agents and, for purposes of the opinions to be delivered pursuant to Section 7 hereof, counsels to the Company and counsel to the Agents, will rely upon the accuracy and truthfulness of the foregoing representations and hereby consents to such reliance.

## Section 2. Sale and Delivery of Shares.

(a) Subject to the terms and conditions set forth herein, the Company agrees to issue and sell exclusively through an Agent acting as sales agent or directly to an Agent acting as principal from time to time (the "Designated Agent"), and the Designated Agent agrees to use its commercially reasonable efforts to sell as sales agent for the Company, the Shares. Sales of the Shares, if any, through the Designated Agent acting as sales agent or directly to the Designated Agent acting as principal will be made by means of ordinary brokers' transactions on the Nasdaq, in negotiated transactions or otherwise at market prices prevailing at the time of sale, at prices related to prevailing market prices or at negotiated prices. Anything to the contrary notwithstanding in this Agreement, without the Company's prior written consent, the Designated Agent may not place any shares by any method other than transactions that are deemed to be "at the market offerings" as defined in Rule 415(a)(4) under the 1933 Act, including sales made directly on the Nasdaq or any other existing trading market for the Shares. The Designated Agent shall effect any sales of Shares in accordance with applicable state and federal rules and regulations and the rules of Nasdaq and otherwise in accordance with the instructions to sell shares delivered pursuant to Section 2(b). Nothing contained herein restricts, nor may be deemed to restrict, the Company from undertaking another offering

of its securities, including pursuant to separate registrations under the 1933 Act (or any exemption from such registration), or another offering under the Registration Statement, provided the Company complies with Section 3(p).

(b) Subject to instructions to sell Shares delivered pursuant to this Section 2(b) or the applicable Terms Agreement, the Shares are to be sold on a daily basis or otherwise as shall be agreed to by the Company and the Designated Agent on that trading day (other than a day on which the Nasdaq is scheduled to close prior to its regular weekday closing time, each, a “Trading Day”) that the Company has satisfied its obligations under Section 7 of this Agreement and that the Company has instructed the Designated Agent to make such sales. For the avoidance of doubt, the foregoing limitation shall not apply to sales solely to employees or security holders of the Company or its subsidiaries, or to a trustee or other person acquiring such securities for the accounts of such persons in which the Designated Agent is acting for the Company in a capacity other than as Agent under this Agreement. On any Trading Day, the Company may instruct the Designated Agent by telephone (confirmed promptly by teletype or email, which confirmation will be promptly acknowledged by the Designated Agent) as to the maximum aggregate dollar value of Shares or number of Shares to be sold by the Designated Agent on such day (in any event not in excess of the number available for issuance under the Prospectus and the currently effective Registration Statement), the minimum price per Share at which such Shares may be sold and in accordance with such other terms specified by the Company in connection with such instruction. For purposes of this Section 2, the notice parties for each of the Company and the Agents are set forth on Schedule 1. Subject to the terms and conditions hereof, the Designated Agent shall use its commercially reasonable efforts to sell as sales agent all of the Shares so designated by the Company and in the manner and on the terms so designated by the Company. The Company and the Designated Agent each acknowledge and agree that (A) there can be no assurance that the Designated Agent will be successful in selling the Shares, (B) the Designated Agent will incur no liability or obligation to the Company or any other person or entity if they do not sell Shares for any reason other than a failure by the Designated Agent to use its commercially reasonable efforts consistent with its normal trading and sales practices and applicable law and regulations to sell such Shares as required by this Agreement, and (C) the Designated Agent shall be under no obligation to purchase Shares on a principal basis except as otherwise specifically agreed by each of the Designated Agent and the Company pursuant to this Agreement and the applicable Terms Agreement. In the event of a conflict between the terms of this Agreement and the terms of a Terms Agreement, the terms of such Terms Agreement will control.

(c) Notwithstanding the foregoing, the Company shall not authorize the issuance and sale of, and the Designated Agent as sales agent shall not sell, any Shares (i) at a price lower than the minimum price therefor authorized from time to time, or (ii) in a number in excess of the number or maximum aggregate dollar value of Shares authorized from time to time to be issued and sold under this Agreement, in each case, by the Company’s board of directors, or a duly authorized committee thereof, and notified to the Designated Agent in writing. In addition, the Company may, upon notice to the Designated Agent, suspend the offering of the Shares or the Designated Agent may, upon notice to the Company, suspend the offering of the Shares with respect to which the Designated Agent is acting as sales agent for any reason and at any time; provided, however, that such suspension or termination shall not affect or impair the parties’ respective obligations with respect to the Shares sold hereunder prior to the giving of such notice. Any notice given pursuant to the preceding sentence may be given by telephone (confirmed promptly by teletype or email, which confirmation will be promptly acknowledged).

(d) The gross sales price per share of any Shares sold pursuant to this Agreement by the Designated Agent acting as sales agent of the Company shall be the market price prevailing at the time of sale for the Company’s Shares sold by the Designated Agent on the Nasdaq or otherwise, at prices relating to prevailing market prices or at negotiated prices. The compensation payable to the Designated Agent for sales of Shares with respect to which the Designated Agent acts as sales agent shall be up to 3.0% of the gross sales price of the Shares for amounts of Shares sold pursuant to this Agreement. The Company may sell Shares to the Designated Agent, acting as principal, at a price agreed upon with the Designated Agent at the relevant Applicable Time and pursuant to a separate Terms Agreement. The remaining proceeds, after further deduction for any transaction fees imposed by any governmental, regulatory or self-regulatory organization in respect of such sales, shall constitute the net proceeds to the Company for such Shares (the “Net Proceeds”). The Designated Agent shall notify the Company as promptly as practicable if any deduction referenced in the preceding sentence will be required.

(e) If acting as a sales agent hereunder, the Designated Agent shall provide written confirmation to the Company following the close of trading on the Nasdaq, each day in which Shares are sold under this Agreement setting forth the number of Shares sold on such day, the aggregate gross sales proceeds of the Shares, the Net Proceeds to the Company and the compensation payable by the Company to such Designated Agent with respect to such sales.

(f) Under no circumstances shall the aggregate offering price or number, as the case may be, of Shares sold pursuant to this Agreement and any Terms Agreement exceed the aggregate offering price or number, as the case may be, of Shares (i) set forth in the preamble paragraph of this Agreement, (ii) available for issuance under the Prospectus and the then currently effective Registration Statement or (iii) authorized from time to time to be issued and sold under this Agreement or any Terms Agreement by the Company's board of directors, or a duly authorized committee thereof, and notified to the Designated Agent in writing. In addition, under no circumstances shall any Shares with respect to which the Designated Agent acts as sales agent be sold at a price lower than the minimum price therefor authorized from time to time by the Company's board of directors, or a duly authorized committee thereof, and notified to the Designated Agent in writing.

(g) Settlement for sales of Shares pursuant to this Section 2 will occur on the second business day that is also a Trading Day following the trade date on which such sales are made, unless another date shall be agreed to by the Company and the Designated Agent (each such day, a "Settlement Date"). On each Settlement Date, the Shares sold through the Designated Agent for settlement on such date shall be delivered by the Company to the Designated Agent against payment of the Net Proceeds from the sale of such Shares. Settlement for all Shares shall be effected by book-entry delivery of Shares to the Designated Agent's account at The Depository Trust Company against payments by the Designated Agent of the Net Proceeds from the sale of such Shares in same day funds delivered to an account designated by the Company. If the Company shall default on its obligation to deliver Shares on any Settlement Date, the Company shall (i) indemnify and hold the Designated Agent harmless against any loss, claim or damage arising from or as a result of such default by the Company and (ii) pay the Designated Agent any commission to which it would otherwise be entitled absent such default.

(h) Notwithstanding any other provision of this Agreement, the Company and the Agents agree that no sales of Shares shall take place, and the Company shall not request the sale of any Shares that would be sold, and the Agents shall not be obligated to sell, during any period in which the Company is, or could be deemed to be, in possession of material non-public information.

(i) At each Applicable Time, Settlement Date, Registration Amendment Date and each Company Periodic Report Date, the Company shall be deemed to have affirmed each representation and warranty contained in this Agreement. Any obligation of the Agents to use their commercially reasonable efforts to sell the Shares on behalf of the Company as sales agent shall be subject to the continuing accuracy of the representations and warranties of the Company herein, to the performance by the Company of its obligations hereunder and to the continuing satisfaction of the additional conditions specified in Section 7 of this Agreement.

(j) The Company agrees that any offer to sell Shares, any solicitation of an offer to buy Shares, or any sales of Shares shall only be effected by or through an Agent, and only a single Agent, on any single given day and the Company shall in no event request that more than one Agent offer or sell Shares on the same day; provided however that (i) the foregoing limitation shall not apply to (A) exercise of any option, warrant, right or any conversion privilege set forth in the instruction governing such securities, (B) sales solely to employees, directors or security holders of the Company or its subsidiaries, or to a trustee or other person acquiring such securities for the accounts of such person and (ii) such limitation shall not apply (A) on any day during which no sales are made pursuant to this Agreement or (B) during a period in which the Company has notified the Agents that it will not sell Shares under this Agreement and (1) no instructions to a Designated Agent to sell Shares are pending or (2) after instructions to a Designated Agent to sell Shares have been withdrawn.

Section 3. Covenants. The Company agrees with each of the Agents:

(a) During any period when the delivery of a prospectus is required in connection with the offering or sale of Shares (whether physically or through compliance with Rule 153 or 172, or in lieu thereof, a notice referred to in Rule 173(a) under the 1933 Act), (i) to make no further amendment or any supplement to the Registration Statement or the Prospectus (other than an amendment or supplement relating to an offering of the Company's securities which is unrelated to the offering of Shares hereunder) prior to any Settlement Date which shall be disapproved by the Agents promptly after reasonable notice thereof and to advise the Agents, promptly after it receives notice thereof, of the time when any amendment to the Registration Statement has been filed or becomes effective or any amendment or supplement to the Prospectus (other than an amendment or supplement relating to an offering of the Company's securities which is unrelated to the offering of Shares hereunder) has been filed and to furnish the Agents with copies thereof, (ii) to file promptly all other material required to be filed by the Company with the Commission pursuant to Rule 433(d) under the 1933 Act, (iii) to file promptly all reports and any definitive proxy or information statements required to be filed by the Company with the Commission pursuant to Section 13(a), 13(c), 14 or 15(d) of the 1934 Act, (iv) to advise the Agents, promptly after it receives notice thereof, of the issuance by the Commission of any stop order or of any order preventing or suspending the use of the Prospectus or other prospectus in respect of the Shares, of the suspension of the qualification of the Shares for offering or sale in any jurisdiction, of the initiation or threatening of any proceeding for any such purpose, or of any request by the Commission for the amending or supplementing of the form of the Registration Statement or the Prospectus or for additional information, and (v) in the event of the issuance of any such stop order or of any such order preventing or suspending the use of the Prospectus in respect of the Shares or suspending any such qualification, to promptly use its commercially reasonable efforts to obtain the withdrawal of such order; and in the event of any such issuance of a notice of objection, promptly to take such reasonable steps as may be necessary to permit offers and sales of the Shares by the Agents, which may include, without limitation, amending the Registration Statement or filing a new registration statement, at the Company's expense (references herein to the Registration Statement shall include any such amendment or new registration statement). Notwithstanding the foregoing, the Company shall not be obligated to furnish copies of any report or statement filed with the Commission to the extent it is available on the Commission's Electronic Data Gathering, Analysis, and Retrieval System ("EDGAR").

(a.1) On the date that the Prospectus Supplement is filed with the Commission, and on each date that any other supplement to the Registration Statement is filed with the Commission, the Company will file the Prospectus Supplement and such other supplement with the British Columbia Securities Commission, pursuant to Section 4(c)(ii) of BC Instrument 72-503 – Distribution of Securities outside British Columbia.

(b) Promptly from time to time to take such action as the Agents may reasonably request to qualify the Shares for offering and sale under the securities laws of such jurisdictions as the Agents may request and to comply with such laws so as to permit the continuance of sales and dealings therein in such jurisdictions for as long as may be necessary to complete the sale of the Shares, provided that in connection therewith the Company shall not be required to qualify as a foreign corporation or to file a general consent to service of process in any jurisdiction; and to promptly advise the Agents of the receipt by the Company of any notification with respect to the suspension of the qualification of the Shares for offer or sale in any jurisdiction or the initiation or threatening of any proceeding for such purpose. Notwithstanding the foregoing, no Shares will be offered or sold in Canada, or knowingly to a person resident in Canada, pursuant to this Agreement or any Terms Agreement.

(c) During any period when the delivery of a prospectus is required (whether physically or through compliance with Rules 153 or 172, or in lieu thereof, a notice referred to in Rule 173(a) under the 1933 Act) in connection with the offering or sale of Shares, the Company will make available to the Agents, as soon as practicable after the execution of this Agreement, and thereafter from time to time furnish to the Agents, copies of the most recent Prospectus in such quantities and at such locations as the Agents may reasonably request for the purposes contemplated by the 1933 Act. During any period when the delivery of a prospectus is required (whether physically or through compliance with Rules 153 or 172, or in lieu thereof, a notice referred to in Rule 173(a) under the 1933 Act) in connection with the offering or sale of Shares, and if at such time any event shall have occurred as a result of which the Prospectus as then amended or supplemented would include an untrue statement of a material fact or omit to state any material fact necessary in order to make the statements therein, in the light of the circumstances under which they were made when such Prospectus is delivered, not misleading, or, if for any other reason it shall be necessary during such same period to amend or supplement the Prospectus or to file under the 1934 Act any document incorporated by reference in the Prospectus in order to comply with the 1933 Act or the 1934 Act, to notify the Agents and to file such document and to prepare and furnish without charge to the Agents as many written and electronic copies as the Agents may from time to time reasonably request of an amended Prospectus or a supplement to the Prospectus which will correct such statement or omission or effect such compliance. Notwithstanding the foregoing, the Company shall not be obligated to furnish copies of any report or statement filed with the Commission to the extent it is available on EDGAR.

(d) To make generally available to its securityholders as soon as practicable, but in any event not later than sixteen months after the effective date of the Registration Statement (as defined in Rule 158(c) under the 1933 Act), an earnings statement of the Company and its subsidiaries (which need not be audited) complying with Section 11(a) of the 1933 Act and the rules and regulations of the Commission thereunder (including, at the option of the Company, Rule 158); provided, however, that, without limiting other methods of compliance with this Section 3(d), the Company's compliance with its periodic reporting requirements pursuant to the 1934 Act shall be deemed to satisfy the covenant set forth in this Section 3(d).

(e) [Reserved].

(f) To use the Net Proceeds received by it from the sale of the Shares pursuant to this Agreement and any Terms Agreement in the manner specified in the General Disclosure Package.

(g) In connection with the offering and sale of the Shares, the Company will file with the Nasdaq all documents and notices, and make all certifications, required by the Nasdaq of companies that have securities that are listed on the Nasdaq and will maintain such listings.

(h) To not take, directly or indirectly, and to cause its controlled affiliates to refrain from taking, any action designed to cause or result in, or that has constituted or might reasonably be expected to constitute, under the 1934 Act or otherwise, the stabilization or manipulation of the price of any securities of the Company to facilitate the sale or resale of the Shares.

(i) At each Applicable Time, each Settlement Date, each Registration Statement Amendment Date (as defined below), each Company Periodic Report Date (as defined below) and each date on which Shares are delivered to an Agent pursuant to a Terms Agreement, the Company shall be deemed to have affirmed each representation, warranty, covenant and other agreement contained in this Agreement or any Terms Agreement. In each Annual Report on Form 10-K or Quarterly Report on Form 10-Q filed by the Company in respect of any quarter in which sales of Shares were made by or through an Agent under this Agreement or any Terms Agreement (each date on which any such document is filed, and any date on which an amendment to any such document is filed, a "Company Periodic Report Date"), the Company shall set forth with regard to such quarter the number of Shares sold through the Agents under this Agreement or any Terms Agreement and the Net Proceeds received by the Company with respect to sales of Shares pursuant to this Agreement or any Terms Agreement.

(j) Upon commencement of the offering of Shares under this Agreement and each time the Shares are delivered to an Agent as principal on a Settlement Date and promptly after each (i) date the Registration Statement or the Prospectus shall be amended or supplemented (other than (1) by an amendment or supplement providing solely for the determination of the terms of the Shares, (2) in connection with the filing of a prospectus supplement that contains solely the information set forth in Section 3(i), (3) in connection with the filing of any current reports on Form 8-K (other than any current reports on Form 8-K which contain financial statements, supporting schedules or other financial data, including any current report on Form 8-K under Item 2.02 of such form that is considered "filed" under the 1934 Act) or (4) by a prospectus supplement relating to the offering of other securities (including, without limitation, other Shares of the Company)) (each such date, a "Registration Statement Amendment Date") and, (ii) Company Periodic Report Date, the Company will furnish or cause to be furnished forthwith to the Agents a certificate dated the date of effectiveness of such amendment or the date of filing with the Commission of such supplement or other document, as the case may be, in a form reasonably satisfactory to the Agents to the effect that the statements contained in the certificate referred to in Section 7(f)(ii) of this Agreement which were last furnished to the Agents are true and correct at the time of such amendment, supplement or filing, as the case may be, as though made at and as of such time (except that such statements shall be deemed to relate to the Registration Statement, the General Disclosure Package and the Prospectus as amended and supplemented to such time) or, in lieu of such certificate, a certificate of the same tenor as the certificate referred to in said Section 7(f)(ii), but modified as necessary to relate to the Registration Statement and the Prospectus as amended and supplemented, or to the document incorporated by reference into the Prospectus, to the time of delivery of such certificate. As used in this paragraph, to the extent there shall be an Applicable Time on or following the date referred to in clause (i) or (ii) above, promptly shall be deemed to be on or prior to the next succeeding Applicable Time. Notwithstanding the foregoing, the Company shall not be required to deliver any such certificate at any time there is no instruction to sell Shares delivered pursuant to Section 2(b) then in effect; provided however, that such a certificate shall then be required to be delivered to the Agents prior to any further sales of Shares under this Agreement covering the period which would most recently have been required but for this sentence.

(k) Upon commencement of the offering of Shares under this Agreement and each time the Shares are delivered to an Agent as principal on a Settlement Date, and promptly after each (i) Registration Statement Amendment Date and (ii) Company Periodic Report Date, the Company will furnish or cause to be furnished to the Agents the written opinion of each Company counsel and written negative assurance statement of Wilson Sonsini Goodrich & Rosati, Professional Corporation ("WSGR"), or other counsel reasonably satisfactory to the Agents, dated the date of effectiveness of such amendment or the date of filing with the Commission of such supplement or other document, as the case may be, in a form and substance reasonably satisfactory to the Agents and their counsel, of the same tenor as the opinions and letters referred to in Section 7(c) of this Agreement, but modified as necessary to relate to the Registration Statement, the General Disclosure Package and the Prospectus as amended and supplemented, or to the document incorporated by reference into the Prospectus, to the time of delivery of such opinion and letter or, in lieu of such opinion and letter, counsel last furnishing such letter to the Agents shall furnish such Agents with a letter substantially to the effect that the Agents may rely on such last opinion and letter to the same extent as though each were dated the date of such letter authorizing reliance (except that statements in such last letter shall be deemed to relate to the Registration Statement and the Prospectus as amended and supplemented to the time of delivery of such letter authorizing reliance). As used in this paragraph, to the extent there shall be an Applicable Time on or following the date referred to in clause (i) or (ii) above, promptly shall be deemed to be on or prior to the next succeeding Applicable Time. Notwithstanding the foregoing, (i) the Company shall not be required to furnish or cause to be furnished any such opinion or statement at any time there are no instructions to sell Shares delivered pursuant to Section 2(b) or a Terms Agreement then in effect; provided, however, that such an opinion or letter shall then be required to be furnished to the Agents prior to any further sales of Shares under this Agreement covering the period which would most recently have been required but for this sentence, and (ii) following the Agents being furnished with the first opinion(s) pursuant to this Section 3(k), subsequent opinions or letters furnished pursuant to this Section 3(k) shall only consist of customary written negative assurance statements.

(l) Upon commencement of the offering of Shares under this Agreement and each time the Shares are delivered to an Agent as principal on a Settlement Date, and promptly after each (i) Registration Statement Amendment Date and (ii) Company Periodic Report Date, the Company will cause KPMG LLP, or other independent accountants reasonably satisfactory to the Agents, to furnish to the Agents a letter, dated the date of effectiveness of such amendment or the date of filing of such supplement or other document with the Commission, as the case may be, in form reasonably satisfactory to the Agents and their counsel, of the same tenor as the letter referred to in Section 7(d) hereof, but modified as necessary to relate to the Registration Statement, the General Disclosure Package and the Prospectus, as amended and supplemented, or to the document incorporated by reference into the Prospectus, to the date of such letter. As used in this paragraph, to the extent there shall be an Applicable Time on or following the date referred to in clause (i) or (ii) above, promptly shall be deemed to be on or prior to the next succeeding Applicable Time. Notwithstanding the foregoing, (A) after a Company Periodic Report Date that relates to the filing of a Quarterly Report on Form 10-Q, and (B) after each Registration Statement Amendment Date (other than as the result of filing an Annual Report on Form 10-K), the Agents hereby agree to receive a certificate of the principal financial officer of the Company, in a form and substance reasonably satisfactory to the Agents and their counsel, in lieu of a letter from KPMG LLP. Further, notwithstanding the foregoing, the Company shall not be required to furnish or cause to be furnished any such letter or certificate at any time there are no instructions to sell shares delivered pursuant to Section 2(b) or a Terms Agreement then ineffect; provided, however, that such a letter or certificate, as the case may be, shall then be required to be furnished to the Agents prior to any further sales of Shares under this Agreement covering the period which would most recently have been required but for this sentence.

(m) The Company consents to the Agents trading in the Company's Shares for each Agent's own account and for the account of its clients at the same time as sales of Shares occur pursuant to this Agreement or any Terms Agreement, provided that, at all times, such Agent is in compliance with Regulation M under the 1934 Act with respect to the Shares and provided that in no event shall such Agent trade the Shares for its or its affiliates' proprietary accounts.

(n) [Reserved].

(o) The Company will cooperate timely with any reasonable due diligence review conducted by the Agents or their counsel from time to time in connection with the transactions contemplated hereby or in any Terms Agreement, including, without limitation, and upon reasonable notice providing information and making available documents and appropriate corporate officers, during regular business hours and at the Company's principal offices, as the Agents may reasonably request.

(p) During each period commencing on the date on which the Company has given an instruction pursuant to Section 2(b) and ending on the close of business of the Settlement Date of the last Shares sold pursuant to such instruction, the Company will not, without giving the Agents at least two business days' prior written notice of a proposed sale or other transaction (which notice shall not be required to specify the nature of such proposed transaction), (A) offer, pledge, announce the intention to sell, 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, lend or otherwise transfer or dispose of, directly or indirectly, any Shares or securities convertible into or exchangeable or exercisable for or repayable with Shares, or file any registration statement under the 1933 Act with respect to any of the foregoing (other than a shelf registration statement under Rule 415 under the 1933 Act, a registration statement on Form S-8 or post-effective amendment to the Registration Statement) or (B) enter into any swap or other agreement or any transaction that transfers in whole or in part, directly or indirectly, any of the economic consequence of ownership of the Shares, or any securities convertible into or exchangeable or exercisable for or repayable with Shares, whether any such swap or transaction described in clause (A) or (B) above is to be settled by delivery of Shares or such other securities, in cash or otherwise. The foregoing sentence shall not apply to (i) the Shares to be offered and sold through the Agents pursuant to this Agreement or any Terms Agreement, (ii) equity incentive awards approved by the board of directors of the Company, the compensation committee thereof or an authorized delegate of the compensation committee or the issuance of Shares upon exercise thereof, (iii) Shares or securities convertible into or exchangeable for Shares as consideration for mergers, acquisitions, other business combinations, joint ventures or strategic alliances occurring after the date of this Agreement which are not used for capital raising purposes and (iv) Shares issuable upon exercise or conversion of outstanding warrants, options or other derivative securities, including, without limitation, the Company's Series 1 Preferred Shares.

(q) If immediately prior to the third anniversary (the “Renewal Deadline”) of the initial effective date of the Registration Statement, any of the Shares remain unsold, the Company may, prior to the Renewal Deadline file, if it has not already done so and is eligible to do so, an “automatic shelf registration statement” (as defined in Rule 405 under the 1933 Act) relating to the Shares, in a form reasonably satisfactory to the Agents. If the Company is not eligible to file an automatic shelf registration statement, the Company may, prior to the Renewal Deadline, if it has not already done so, file a new shelf registration statement relating to the Shares, in a form reasonably satisfactory to the Agents, and, if such new shelf registration statement is filed, use its commercially reasonable efforts to cause such registration statement to be declared effective within 60 days after the Renewal Deadline. If a new shelf registration statement is filed pursuant to this Section 3(q), the Company will use commercially reasonable efforts to take all other action necessary or appropriate to permit the issuance and sale of the Shares to continue as contemplated in the expired registration statement relating to the Shares. References herein to the Registration Statement shall include any such new automatic shelf registration statement or any such new shelf registration statement, as the case may be.

#### Section 4. Free Writing Prospectus

(a) (i) The Company represents and agrees that without the prior consent of the Agents (which consent may not be unreasonably withheld, delayed or conditioned), it has not made and will not make any offer relating to the Shares that would constitute a “free writing prospectus” as defined in Rule 405 under the 1933 Act; and

(ii) each Agent represents and agrees that, without the prior consent of the Company (which consent may not be unreasonably withheld, delayed or conditioned), it has not made and will not make any offer relating to the Shares that would constitute a free writing prospectus required to be filed with the Commission.

(b) The Company has complied and will comply with the requirements of Rule 433 under the 1933 Act applicable to any Issuer Free Writing Prospectus (including any free writing prospectus identified in Section 4(a) hereof), including timely filing with the Commission or retention where required and legending.

#### Section 5. Payment of Expenses

(a) The Company covenants and agrees with the Agents that the Company will pay or cause to be paid the following: (i) the fees, disbursements and expenses of the Company’s counsel and accountants in connection with the registration of the Shares under the 1933 Act and all other expenses in connection with the preparation, printing and filing of the Registration Statement, the Basic Prospectus, Prospectus Supplement, any Issuer Free Writing Prospectus and the Prospectus and amendments and supplements thereto and the mailing and delivering of copies thereof to the Agents; (ii) the cost of printing or producing this Agreement or any Terms Agreement, any blue sky memoranda, closing documents (including any compilations thereof) and any other documents in connection with the offering, purchase, sale and delivery of the Shares; (iii) all expenses in connection with the qualification of the Shares for offering and sale under state securities laws as provided in Section 3(b) hereof, including the reasonable and documented fees and disbursements of counsel for the Agents in an amount not to exceed \$5,000 in connection with such qualification and in connection with the blue sky surveys; (iv) any filing fees incident to, and the reasonable and documented fees and disbursements of counsel for the Agents in an amount not to exceed \$10,000 in connection with, any required review by the Financial Industry Regulatory Authority, Inc. (“FINRA”) of the terms of the sale of the Shares; (v) all fees and expenses in connection with listing the Shares on the Nasdaq; (vi) the cost of preparing the Shares; (vii) the costs and charges of any transfer agent or registrar or any dividend distribution agent; and (viii) all other costs and expenses incident to the performance of its obligations hereunder which are not otherwise specifically provided for in this Section. It is understood, however, that, except as provided in this Section, and Section 8 hereof, the Agents will pay all of their own costs and expenses, including the fees of its counsel, transfer taxes on resale of any of the Shares by it, and any advertising expenses connected with any offers it may make.



(b) Each Agent shall be responsible for all of its out-of-pocket expenses, including the reasonable fees and disbursements of U.S. and Canadian counsel for the Agents; provided, however, that if less than \$5 million of Shares are sold pursuant to this Agreement prior to its termination, then, in connection with termination of the Agreement, the Company shall reimburse the Agents for all of their reasonable and documented out-of-pocket expenses, including the reasonable and documented fees and disbursements of U.S. and Canadian counsel for the Agents, incurred by the Agents in connection with the offering contemplated by this Agreement, up to an aggregate amount of \$75,000 (which amount shall include the reasonable and documented fees and disbursements of counsel incurred pursuant to Section 5(a)(iii) and (iv)), provided further, however, that if any Shares are sold pursuant to this Agreement (but less than \$5 million of gross proceeds of Shares), the Company shall reimburse the Agents for an amount equal to the product of \$75,000\*(1-(gross proceeds of Shares sold under this Agreement/5,000,000)) (which amount shall include the reasonable and documented fees and disbursements of counsel incurred pursuant to Section 5(a)(iii) and (iv)).

Section 6. Representations and Covenants of Agents. Each of the Agents represents and warrants that it is duly registered as a broker-dealer under FINRA, the 1934 Act and the applicable statutes and regulations of each state in which the Shares will be offered and sold, except such states in which such Agent is exempt from registration or such registration is not otherwise required. Each of the Agents shall continue, for the term of this Agreement, to be duly registered as a broker-dealer under FINRA, the 1934 Act and the applicable statutes and regulations of each state in which the Shares will be offered and sold, except such states in which such Agent is exempt from registration or such registration is not otherwise required, during the term of this Agreement. Each of the Agents will comply in all material respects with all applicable law and regulations in connection with the Shares, including, but not limited to, Regulation M. Each of the Agents further represents and covenants to the Company that (i) there has not been, nor will there be, any advertisement or solicitation by such Agent in furtherance of the sale of the Shares in Canada and (ii) it has not offered or sold, and will not offer or sell, any of the Shares in Canada or knowingly to a person resident in Canada, pursuant to this Agreement or any Terms Agreement.

Section 7. Conditions of Agents' Obligation. The obligations of the Agents hereunder shall be subject, in its discretion, to the condition that all representations and warranties and other statements of the Company herein or in certificates of any officer of the Company delivered pursuant to the provisions hereof are true and correct as of the time of the execution of this Agreement, the date of any executed Terms Agreement and as of each Registration Statement Amendment Date, Company Periodic Report Date, Applicable Time and Settlement Date, to the condition that the Company shall have performed all of its obligations hereunder theretofore to be performed, and the following additional conditions:

(a) The Prospectus Supplement shall have been filed with the Commission in accordance with and pursuant to Rule 424(b) under the 1933 Act on or promptly after the date hereof and in accordance with Section 3(a) hereof, any other material required to be filed by the Company pursuant to Rule 433(d) under the 1933 Act shall have been filed with the Commission within the applicable time periods prescribed for such filings by Rule 433; no stop order suspending the effectiveness of the Registration Statement or any part thereof shall have been issued and no proceeding for that purpose shall have been initiated or threatened by the Commission; no stop order suspending or preventing the use of the Prospectus or any Issuer Free Writing Prospectus shall have been initiated or threatened by the Commission; and all requests for additional information on the part of the Commission shall have been complied with to the reasonable satisfaction of the Agents.

(b) On every date specified in Section 3(k) hereof and on such other dates as reasonably requested by Agents, Cooley LLP, counsel for the Agents, shall have furnished to the Agents such written opinion or opinions, dated as of such date, with respect to such matters as the Agents may reasonably request, and such counsel shall have received such papers and information as they may reasonably request to enable them to pass upon such matters.

(c) On every date specified in Section 3(k) hereof, WSGR, U.S. counsel for the Company and Blake, Cassels & Graydon LLP (“BCG”), Canadian counsel for the Company, respectively, shall have furnished to the Agents written opinion or opinions, and, with respect to WSGR only, a written negative assurance statement, each dated as of such date, in form and substance reasonably satisfactory to the Agents (it being understood and agreed that, other than the first such opinions furnished to the Agents by WSGR and BCG, such opinions and statements shall consist of a customary written negative assurance statement from WSGR only). Upon commencement of the offering of Shares under this Agreement and promptly after each Company Periodic Report Date that relates to the filing of an Annual Report on Form 10-K, Seed Intellectual Property Law Group PLLC, intellectual property counsel for the Company, shall have furnished to the Agents a written opinion or opinions, dated as of such date, in form and substance reasonably satisfactory to the Agents (it being understood and agreed that, other than the first such opinion furnished to the Agents, such opinion shall consist of a customary written negative assurance statement only).

(d) At the dates specified in Section 3(l) hereof, the independent accountants of the Company who have certified the financial statements of the Company, and its subsidiaries included or incorporated by reference in the Registration Statement, the General Disclosure Package and the Prospectus shall have furnished to the Agents a letter dated as of the date of delivery thereof and addressed to the Agents in form and substance reasonably satisfactory to the Agents and its counsel, containing statements and information of the type ordinarily included in accountants’ “comfort letters” to underwriters with respect to the financial statements of the Company and its subsidiaries included or incorporated by reference in the Registration Statement, the General Disclosure Package and the Prospectus. Notwithstanding the foregoing, (A) after a Company Periodic Report Date that relates to the filing of a Quarterly Report on Form 10-Q, and (B) after each Registration Statement Amendment Date (other than as the result of filing an Annual Report on Form 10-K), the Agents hereby agree to receive a certificate of the principal financial officer of the Company, in a form and substance reasonably satisfactory to the Agents and their counsel, in lieu of a letter from the independent accountants of the Company.

(e) Prior to commencement of the offering of Shares under this Agreement, the Agents shall have received a certificate, signed on behalf of the Company by its corporate Secretary, in form and substance satisfactory to the Agents and their counsel.

(f) (i) Upon commencement of the offering of Shares under this Agreement and on such other dates as reasonably requested by Agents, the Company will furnish or cause to be furnished promptly to the Agents a certificate of an officer in a form satisfactory to the Agents stating the minimum price for the sale of such Shares pursuant to this Agreement and the maximum number of Shares that may be issued and sold pursuant to this Agreement or, alternatively, maximum gross proceeds from such sales, as authorized from time to time by the Company’s board of directors or a duly authorized committee thereof or, in connection with any amendment, revision or modification of such minimum price or maximum Share number or amount, a new certificate with respect thereto and (ii) on each date specified in Section 3(j), the Agents shall have received a certificate of an executive officer of the Company, being either the Chief Executive Officer or Chief Financial Officer, dated as of the date thereof, in a form reasonably satisfactory to the Agents.

(g) Since the date of the latest audited financial statements then included or incorporated by reference in the General Disclosure Package and the Prospectus, no Material Adverse Effect shall have occurred, except as otherwise disclosed in the Registration Statement, the General Disclosure Package and the Prospectus.

(h) The Company shall have complied with the provisions of Section 3(c) hereof with respect to the timely furnishing of prospectuses.

(i) On such dates as reasonably requested by the Agents, the Company shall have conducted due diligence sessions, in form and substance reasonably satisfactory to the Agents.

(j) All filings with the Commission required by Rule 424 under the 1933 Act to have been filed by each Applicable Time or related Settlement Date shall have been made within the applicable time period prescribed for such filing by Rule 424 (without reliance on Rule 424(b)(8)).

(k) The Shares shall have received approval for listing on the Nasdaq prior to the first Settlement Date.

(l) Prior to any Settlement Date, the Company shall have furnished to the Agents such further information, documents or certificates as the Agents may reasonably request.

Section 8. Indemnification.

(a) The Company will indemnify and hold harmless the Agents against any losses, claims, damages or liabilities, joint or several, to which the Agents may become subject, under the 1933 Act or otherwise, insofar as such losses, claims, damages or liabilities (or actions in respect thereof) arise out of or are based upon an untrue statement or alleged untrue statement of a material fact contained in the Registration Statement, the Basic Prospectus, the Prospectus Supplement or the Prospectus or any amendment or supplement thereto, any Issuer Free Writing Prospectus or any "issuer information" filed or required to be filed pursuant to Rule 433(d) under the 1933 Act, or arise out of or are based upon the omission or alleged omission to state therein a material fact required to be stated therein or necessary to make the statements therein not misleading, and will reimburse the Agents for any legal or other expenses reasonably incurred by the Agents in connection with investigating or defending any such action or claim as such expenses are incurred; provided, however, that the Company shall not be liable in any such case to the extent that any such loss, claim, damage or liability arises out of or is based upon an untrue statement or alleged untrue statement or omission or alleged omission made in the Registration Statement, the Basic Prospectus, the Prospectus Supplement or the Prospectus, or any amendment or supplement thereto, or any Issuer Free Writing Prospectus, in reliance upon and in strict conformity with the Agent Information (as defined below).

(b) Each Agent, severally but not jointly, will indemnify and hold harmless the Company against any losses, claims, damages or liabilities to which the Company may become subject, under the 1933 Act or otherwise, insofar as such losses, claims, damages or liabilities (or actions in respect thereof) arise out of or are based upon an untrue statement or alleged untrue statement of a material fact contained in the Registration Statement, the Basic Prospectus, the Prospectus Supplement or the Prospectus, or any amendment or supplement thereto, or any Issuer Free Writing Prospectus, or arise out of or are based upon the omission or alleged omission to state therein a material fact required to be stated therein or necessary to make the statements therein not misleading, in each case to the extent, but only to the extent, that such untrue statement or alleged untrue statement or omission or alleged omission was made in the Registration Statement, the Basic Prospectus, the Prospectus Supplement or the Prospectus, or any such amendment or supplement thereto, or any Issuer Free Writing Prospectus, in reliance upon and in strict conformity with written information furnished to the Company by the Agents expressly for use therein; and will reimburse the Company for any legal or other expenses reasonably incurred by the Company in connection with investigating or defending any such action or claim as such expenses are incurred. The Company hereby acknowledges that the only information that the Agents has furnished to the Company expressly for use in the Registration Statement, the Basic Prospectus, the Prospectus Supplement or the Prospectus, or any amendment or supplement thereto, or any Issuer Free Writing Prospectus, are the statements set forth in the ninth paragraph under the caption "Plan of Distribution" in the Prospectus (the "Agent Information").

(c) Promptly after receipt by an indemnified party under subsection (a) or (b) above of notice of the commencement of any action, such indemnified party shall, if a claim in respect thereof is to be made against the indemnifying party under such subsection, notify the indemnifying party in writing of the commencement thereof; but the omission so to notify the indemnifying party shall not relieve it from any liability which it may have to any indemnified party otherwise than under such subsection except and then only to the extent such indemnifying party is materially prejudiced thereby. In case any such action shall be brought against any indemnified party and it shall notify the indemnifying party of the commencement thereof, the indemnifying party shall be entitled to participate therein and, to the extent that it shall wish, jointly with any other indemnifying party similarly notified, to assume the defense thereof, with counsel reasonably satisfactory to such indemnified party, and, after notice from the indemnifying party to such indemnified party of its election so to assume the defense thereof, the indemnifying party shall not be liable to such indemnified party under this Section 8 for any legal expenses of other counsel or any other expenses, in each case subsequently incurred by such indemnified party, in connection with the defense thereof other than reasonable costs of investigation. No indemnifying party shall, without the written consent of the indemnified party, effect the settlement or compromise of, or consent to the entry of any judgment with respect to, any pending or threatened action or claim in respect of which indemnification or contribution may be sought hereunder (whether or not the indemnified party is an actual or potential party to such action or claim) unless such settlement, compromise or judgment (i) includes an unconditional release of the indemnified party from all liability arising out of such action 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.

(d) If the indemnification provided for in this Section 8 is unavailable to hold harmless an indemnified party under subsection (a) or (b) above in respect of any losses, claims, damages or liabilities (or actions in respect thereof) referred to therein, then each indemnifying party shall contribute to the amount paid or payable by such indemnified party as a result of such losses, claims, damages or liabilities (or actions in respect thereof) in such proportion as is appropriate to reflect the relative benefits received by the Company on the one hand and the Agents on the other from the offering of the Shares to which such loss, claim, damage or liability (or action in respect thereof) relates. If, however, the allocation provided by the immediately preceding sentence is not permitted by applicable law, then each indemnifying party shall contribute to such amount paid or payable by such indemnified party in such proportion as is appropriate to reflect not only such relative benefits but also the relative fault of the Company on the one hand and the Agents on the other in connection with the statements or omissions which resulted in such losses, claims, damages or liabilities (or actions in respect thereof), as well as any other relevant equitable considerations. The relative benefits received by the Company on the one hand and the Agents on the other shall be deemed to be in the same proportion as the total net proceeds from the offering (before deducting expenses) received by the Company bear to the total commissions received by the Agents. The relative fault shall be determined by reference to, among other things, whether the untrue or alleged untrue statement of a material fact or the omission or alleged omission to state a material fact relates to information supplied by the Company on the one hand or the Agents on the other and the parties' relative intent, knowledge, access to information and opportunity to correct or prevent such statement or omission. The Company and the Agents agree that it would not be just and equitable if contribution pursuant to this subsection (d) were determined by pro rata allocation or by any other method of allocation which does not take account of the equitable considerations referred to above in this subsection (d). The amount paid or payable by an indemnified party as a result of the losses, claims, damages or liabilities (or actions in respect thereof) referred to above in this subsection (d) shall be deemed to include any legal or other expenses reasonably incurred by such indemnified party in connection with investigating or defending any such action or claim. Notwithstanding the provisions of this subsection (d), an Agent shall not be required to contribute any amount in excess of the amount by which the total compensation received by such Agent with respect to sales of the Shares sold by it to the public exceeds the amount of any damages which such Agent has otherwise been required to pay by reason of such untrue or alleged untrue statement or omission or alleged omission. 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. The Agents' respective obligations to contribute pursuant to this Section 8(d) are several in proportion to the respective number of Shares they have sold hereunder, and not joint.

(e) The obligations of the Company under this Section 8 shall be in addition to any liability which the Company may otherwise have and shall extend, upon the same terms and conditions, to the directors, officers, employees, attorneys and agents of the Agents and to each person, if any, who controls the applicable Agent within the meaning of the 1933 Act and each broker dealer affiliate of the Agents; and the obligations of the Agents under this Section 8 shall be in addition to any liability which the Agents may otherwise have and shall extend, upon the same terms and conditions, to each director, officer, employee, attorney and agent of the Company and to each person, if any, who controls the Company within the meaning of the 1933 Act.

Section 9. Representations, Warranties and Agreements to Survive Delivery. The respective indemnities, agreements, representations, warranties and other statements of the Company and the Agents, as set forth in this Agreement or made by or on behalf of them, respectively, pursuant to this Agreement, shall remain in full force and effect, regardless of any investigation (or any statement as to the results thereof) made by or on behalf of the Agents or any controlling person of an Agent, or the Company, or any officer or director or controlling person of the Company, and shall survive delivery of and payment for the Shares.

Section 10. No Advisory or Fiduciary Relationship. The Company acknowledges and agrees that (i) each Agent is acting solely in the capacity of an arm's length contractual counterparty to the Company with respect to the offering of Shares contemplated hereby (including in connection with determining the terms of such offering) and (ii) the Agents have not assumed an advisory or fiduciary responsibility in favor of the Company with respect to the offering contemplated hereby or the process leading thereto (irrespective of whether the Agents have advised or is currently advising the Company on other matters) or any other obligation to the Company except the obligations expressly set forth in this Agreement and (iii) the Company has consulted its own legal and financial advisors to the extent it deemed appropriate. The Company agrees that it will not claim that the Agents have rendered advisory services of any nature or respect, or owe a fiduciary or similar duty to the Company, in connection with such transaction or the process leading thereto.

Section 11. Termination.

(a) The Company shall have the right, by giving written notice as hereinafter specified, to terminate this Agreement in its sole discretion at any time. Any such termination shall be without liability of any party to any other party, except that (i) with respect to any pending sale through the Agents for the Company, the obligations of the Company, including in respect of compensation of the Agents, shall remain in full force and effect notwithstanding such termination until such pending sales are settled; and (ii) the provisions of Section 1, Section 5, Section 8, Section 9, Section 15 and Section 16 of this Agreement shall remain in full force and effect notwithstanding such termination.

(b) Each Agent shall have the right, by giving written notice as hereinafter specified, to terminate its participation in this Agreement in its sole discretion at any time. The Agents shall have the right, by giving joint written notice as hereinafter specified, to terminate this Agreement in their sole discretion at any time. Any such termination shall be without liability of any party to any other party except that (i) with respect to any pending sale, including a pending sale pursuant to a Terms Agreement, through an Agent for the Company, the obligations of the Agent, as applicable, shall remain in full force and effect notwithstanding such termination until such pending sales are settled; and (ii) the provisions of Section 1, Section 5, Section 8, Section 9, Section 15 and Section 16 of this Agreement shall remain in full force and effect notwithstanding such termination.

(c) Unless earlier terminated pursuant to this Section 11, this Agreement shall automatically terminate upon the issuance and sale of all of the Shares by the Agents on the terms and subject to the conditions set forth herein except any termination pursuant to this clause (c) shall in all cases be deemed to provide that Section 1, Section 5, Section 8, Section 9, Section 15 and Section 16 of this Agreement shall remain in full force and effect.

(d) This Agreement shall remain in full force and effect until and unless terminated pursuant to Section 11(a), (b) or (c) above or otherwise by mutual agreement of the parties; provided that any such termination by mutual agreement or pursuant to this clause (d) shall in all cases be deemed to provide that Section 1, Section 5, Section 8, Section 9, Section 15 and Section 16 of this Agreement shall remain in full force and effect.

(e) Any termination of this Agreement shall be effective on the date specified in such notice of termination; provided that such termination shall not be effective until the close of business on the date of receipt of such notice by the Agents or the Company, as the case may be. If such termination shall occur prior to the Settlement Date for any sale of Shares, such sale shall settle in accordance with the provisions of Section 2(g) hereof.

(f) In the case of any purchase by an Agent pursuant to a Terms Agreement, such Agent may terminate this Agreement, at any time at or prior to the Settlement Date of such purchase (i) if there has been, since the time of execution of this Agreement or since the respective dates as of which information is given in the General Disclosure Package or the Prospectus, any Material Adverse Effect, 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 national or international political, financial or economic conditions, in each case the effect of which is such as to make it, in the judgment of such Agent, impracticable or inadvisable to market the Shares or to enforce contracts for the sale of Shares, or (iii) if trading in any securities of the Company has been suspended or materially limited by the Commission or the Nasdaq, or if trading generally on the NYSE American or the NYSE or Nasdaq 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 such system or by order of the Commission, FINRA or any other governmental authority, or (iv) a material disruption has occurred in commercial banking or securities settlement or clearance services in the United States, or (v) if a banking moratorium has been declared by either Federal or New York authorities.

Section 12. Notices. All statements, requests, notices and agreements hereunder shall be in writing, and if to the Agents shall be delivered or sent by mail, telex or facsimile transmission to:

Jefferies LLC  
520 Madison Avenue  
New York, New York 10022  
Fax No. (646) 619-4437  
Attention: General Counsel

Stifel, Nicolaus & Company, Incorporated  
One South Street, 15<sup>th</sup> Floor  
Baltimore, Maryland 21202  
Fax No. (443) 224-1273  
Attention: Syndicate Department

with a copy to (which shall not constitute notice):

Cooley LLP  
1114 Avenue of the Americas  
New York, NY 10036  
Fax No. (212) 479-6275  
Attention: Daniel I. Goldberg

and if to the Company to:

Xenon Pharmaceuticals Inc.  
200 – 3650 Gilmore Way  
Burnaby, British Columbia V5G 4W8  
Fax No. (604) 484-3450  
Attention: Chief Financial Officer

with a copy to (which shall not constitute notice):  
Wilson Sonsini Goodrich & Rosati, Professional Corporation  
650 Page Mill Road  
Palo Alto, California 94304  
Fax No. (650) 493-6811  
Attention: Steven V. Bernard and Bryan D. King

Any such statements, requests, notices or agreements shall take effect upon receipt thereof.

Section 13. Parties. This Agreement shall be binding upon, and inure solely to the benefit of, the Agents and the Company and, to the extent provided in Sections 8 and 9 hereof, the officers, directors, employees, attorneys and agents of the Company and the Agents and each person who controls the Company or an Agent, and their respective heirs, executors, administrators, successors and assigns, and no other person shall acquire or have any right under or by virtue of this Agreement. No purchaser of Shares through the Agents shall be deemed a successor or assign by reason merely of such purchase.

Section 14. Time of the Essence. Time shall be of the essence of this Agreement. As used herein, the term “business day” shall mean any day when the Commission’s office in Washington, D.C. is open for business.

Section 15. Waiver of Jury Trial. The Company and the Agents hereby irrevocably waive, to the fullest extent permitted by applicable law, any and all right to jury trial by jury in any legal proceeding arising out of or relating to this Agreement or the transactions contemplated hereby.

Section 16. Governing Law; Currency. This Agreement shall be governed by and construed in accordance with the internal laws of the State of New York applicable to agreements made and to be performed in such state. Any legal suit, action or proceeding arising out of or based upon this Agreement or the transactions contemplated hereby (“Related Proceedings”) may be instituted in the New York Courts, 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 (a “Related Judgment”), 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 any objection to the laying of venue of any suit, action or other proceeding in the New York Courts and 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. The Company has irrevocably appointed CT Corporation System pursuant to a Form U-2 Uniform Consent to Service of Process filed with the Secretary of State of the State of New York, as its agent to receive service of process or other legal summons for purposes of any such suit, action or proceeding that may be instituted in any state or federal court in the Borough of Manhattan in the City of New York.

With respect to any Related Proceeding, each party irrevocably waives, to the fullest extent permitted by applicable law, all immunity (whether on the basis of sovereignty or otherwise) from jurisdiction, service of process, attachment (both before and after judgment) and execution to which it might otherwise be entitled in the New York Courts, and with respect to any Related Judgment, each party waives any such immunity in the New York Courts or any other court of competent jurisdiction, and will not raise or claim or cause to be pleaded any such immunity at or in respect of any such Related Proceeding or Related Judgment, including, without limitation, any immunity pursuant to the United States Foreign Sovereign Immunities Act of 1976, as amended.

All references to "\$" in this Agreement refer to United States dollars. The obligations of the Company pursuant to this Agreement in respect of any sum due to an Agent shall, notwithstanding any judgment in a currency other than United States dollars, not be discharged until the first business day following receipt by the Agent of any sum adjudged to be so due in such other currency, on which such Agent may in accordance with normal banking procedures purchase United States dollars with such other currency. If the United States dollars so purchased are less than the sum originally due an Agent in United States dollars hereunder, the Company agrees as a separate obligation and notwithstanding any such judgment, to indemnify such Agent against such loss. If the United States dollars so purchased are greater than the sum originally due to an Agent hereunder, such Agent agrees to pay to the Company an amount equal to the excess of the dollars so purchased over the sum originally due to such Agent hereunder.

All payments made by the Company under this Agreement, if any, will be made without withholdings or deduction for or on account of any present or future taxes, duties, assessments or governmental charges of whatever nature (other than taxes on net income) imposed or levied by or on behalf of Canada or any political subdivision or any taxing authority thereof or therein unless the Company is or becomes required by law to withhold or deduct such taxes, duties, assessments or other governmental charges. In such event, the Company will pay such additional amounts as will result, after such withholding or deduction, in the receipt by an Agent of the amounts that would otherwise have been receivable in respect thereof, provided however that no such additional amounts will be payable in the case of any such additional amounts required to be deducted or withheld by applicable law: (i) that are in respect of services performed by or on behalf of such Agent in Canada; (ii) that are in respect of services performed by or on behalf of such Agent outside of Canada unless such services are performed in the ordinary course of a business carried on by such Agent that included the performance of such services for a fee; (iii) that are in respect of interest paid or credited to such Agent if the Agent does not deal at arm's length for purposes of the *Income Tax Act*(Canada) with the Company; or (iv) that are in respect of interest paid to a "specified shareholder" of the Company for purposes of subsection 18(5) of the *Income Tax Act*(Canada) or a person who does not deal at arm's length with such a "specified shareholder". For greater certainty, the Company will not be responsible for any such additional amounts: (i) that are in respect of an Agent being resident in Canada for purposes of the *Income Tax Act*(Canada) or being an insurer that carries on an insurance business in Canada and elsewhere; or (ii) that are in respect of an Agent carrying on business in Canada for purposes of the *Income Tax Act*(Canada).

Section 17. Counterparts. This Agreement, any Terms Agreement and any documents provided to the other party pursuant to this Agreement or any Terms Agreement may be executed by any one or more of the parties hereto and thereto in any number of counterparts, each of which shall be deemed to be an original, but all such respective counterparts shall together constitute one and the same instrument. This Agreement, any Terms Agreement and any documents provided to the other party pursuant to this Agreement or any Terms Agreement may be delivered by any party by facsimile or other electronic transmission.

Section 18. Severability. 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.

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

[signature page follows]



Very truly yours,

XENON PHARMACEUTICALS INC.

By: /s/ Ian Mortimer

Name: Ian Mortimer

Title: President, Chief Financial Officer and Corporate Secretary

Accepted as of the date hereof:

JEFFERIES LLC

By: /s/ Donald Lynaugh

Name: Donald Lynaugh

Title: Managing Director

STIFEL, NICOLAUS & COMPANY, INCORPORATED

By: /s/ Daniel J. Covatta

Name: Daniel J. Covatta

Title: Managing Director

## XENON PHARMACEUTICALS INC.

## Common Shares

## TERMS AGREEMENT

[JEFFERIES LLC  
520 Madison Avenue  
New York, New York 10022]

[STIFEL, NICOLAUS & COMPANY, INCORPORATED  
One South Street, 15<sup>th</sup> Floor  
Baltimore, MD 21202  
Attn: Syndicate Department]

Ladies and Gentlemen:

Xenon Pharmaceuticals Inc., a corporation continued under the federal laws of Canada (the “Company”), proposes, subject to the terms and conditions stated herein and in the At-the-Market Equity Offering Sales Agreement, dated November 5, 2019 (the “Sales Agreement”), among the Company, Jefferies LLC and Stifel, Nicolaus & Company, Incorporated to issue and sell to [*name of designated agent*] (the “Designated Agent”) the securities specified in the Schedule hereto (the “Purchased Securities”) [, and solely for the purpose of covering over-allotments, to grant to the Designated Agent the option to purchase the additional securities specified in the Schedule hereto (the “Additional Securities”)]\*.

[The Designated Agent shall have the right to purchase from the Company all or a portion of the Additional Securities as may be necessary to cover over-allotments made in connection with the offering of the Purchased Securities, at the same purchase price per share to be paid by the Designated Agent to the Company for the Purchased Securities. This option may be exercised by the Designated Agent at any time (but not more than once) on or before the thirtieth day following the date hereof, by written notice to the Company. Such notice shall set forth the aggregate number of shares of Additional Securities as to which the option is being exercised, and the date and time when the Additional Securities are to be delivered (such date and time being herein referred to as the “Option Closing Date”); provided, however, that the Option Closing Date shall not be earlier than the Time of Delivery (as set forth in the Schedule hereto) nor earlier than the second business day after the date on which the option shall have been exercised nor later than the fifth business day after the date on which the option shall have been exercised. Payment of the purchase price for the Additional Securities shall be made at the Option Closing Date in the same manner and at the same office as the payment for the Purchased Securities.]\*

Each of the provisions of the Sales Agreement not specifically related to the solicitation by the Designated Agent, as agent of the Company, of offers to purchase securities is incorporated herein by reference in its entirety, and shall be deemed to be part of this Terms Agreement to the same extent as if such provisions had been set forth in full herein. Each of the representations and warranties set forth therein shall be deemed to have been made at and as of the date of this Terms Agreement [and] [,] the Applicable Time [and any Option Closing Date]\*, except that each representation and warranty in Section 1 of the Sales Agreement which makes reference to the Prospectus (as therein defined) shall be deemed to be a representation and warranty as of the date of the Sales Agreement in relation to the Prospectus, and also a representation and warranty as of the date of this Terms Agreement [and] [,] the Settlement Date [and any Option Closing Date]\* in relation to the Prospectus as amended and supplemented to relate to the Purchased Securities.

An amendment to the Registration Statement (as defined in the Sales Agreement), or a supplement to the Prospectus, as the case may be, relating to the Purchased Securities [and the Additional Securities]\*, in the form heretofore delivered to the Designated Agent is now proposed to be filed with the Securities and Exchange Commission.

Subject to the terms and conditions set forth herein and in the Sales Agreement which are incorporated herein by reference, the Company agrees to issue and sell to the Designated Agent and the latter agrees to purchase from the Company the number of shares of the Purchased Securities at the time and place and at the purchase price set forth in the Schedule hereto.

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

Very truly yours,

XENON PHARMACEUTICALS INC.

By:

Name:

Title:

Accepted as of the date hereof:

[●]

By:

Name:

Title:

\* Include only if the Designated Agent has an over-allotment option.



Blake, Cassels & Graydon LLP  
Barristers & Solicitors  
Patent & Trade-mark Agents  
595 Burrard Street, P.O. Box 49314  
Suite 2600, Three Bentall Centre  
Vancouver BC V7X 1L3 Canada  
Tel: 604-631-3300 Fax: 604-631-3309

November 5, 2019

Reference:191296/6

Xenon Pharmaceuticals Inc.  
200 – 3650 Gilmore Way  
Burnaby, BC V5G 4W8  
Canada

**RE: At-the-Market Equity Offering Program of Xenon Pharmaceuticals Inc.**

We have acted as Canadian counsel to Xenon Pharmaceuticals Inc. (the “**Company**”), a corporation continued under the federal laws of Canada, in connection with the offer and sale by the Company of up to US\$50,000,000 of common shares in the capital of the Company (the “**Shares**”), pursuant to a Registration Statement on Form S-3 (Registration No. 333-233056) (the “**Registration Statement**”), filed by the Company on August 6, 2019 with the Securities and Exchange Commission (the “**SEC**”) under the Securities Act of 1933, as amended (the “**Securities Act**”), the prospectus included in the Registration Statement (the “**Base Prospectus**”), and the prospectus supplement related to the Shares to be filed by the Company with the SEC pursuant to Rule 424(b) promulgated under the Securities Act (together with the Base Prospectus, the “**Prospectus**”).

The offer and sale of the Shares is being made pursuant to that certain at-the-market equity offering sales agreement (the “**Sales Agreement**”), dated as of November 5, 2019, by and between the Company, Jefferies LLC and Stifel, Nicolaus & Company, Incorporated.

In connection with giving this opinion, we have examined the Registration Statement (including exhibits thereto) and the Prospectus. We have also examined originals, certified or otherwise identified to our satisfaction, of such public and corporate records, certificates, instruments and other documents as we have considered necessary in order to express the opinion set out below. With respect to the accuracy of factual matters material to this opinion, we have relied upon certificates or comparable documents and representations of public officials and of officers and representatives of the Company.

In giving this opinion, we have assumed the genuineness of all signatures, the authenticity of all documents submitted to us as originals and the conformity to original documents of all documents submitted to us as copies, certified or otherwise identified to our satisfaction. We have also considered such questions of law as we have deemed relevant and necessary as a basis for the opinion hereinafter expressed.

The opinion expressed herein is limited to matters governed by the laws of the Province of British Columbia and the laws of Canada applicable therein.

Based and relying upon and subject to the foregoing, we are of the opinion that the offer and sale of the Shares has been duly authorized by the Company and, when the Shares are issued and paid for in accordance with the terms of the Sales Agreement, the Shares will be validly issued, fully paid and non-assessable shares in the capital of the Company.

We hereby consent to the reference to our firm under the caption “Legal Matters” in the Prospectus and to the filing of this opinion letter as an exhibit to a Current Report on Form 8-K to be filed by the Company with the SEC for incorporation by reference into the Registration Statement.

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*Blakes*

This opinion is effective as at the date hereof and is based upon laws in effect and facts in existence as at the date hereof. We express no opinion as to the effect of future laws or judicial decisions on the subject matter hereof, nor do we undertake any duty to modify this opinion to reflect subsequent facts or developments concerning the Company or developments in the law occurring after the date hereof.

Yours truly,

/s/ Blake, Cassels & Graydon LLP