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

FORM 8-K

**CURRENT REPORT
PURSUANT TO SECTION 13 OR 15(d)
OF THE SECURITIES EXCHANGE ACT OF 1934**

Date of Report (Date of earliest event reported): July 31, 2013

BioCryst Pharmaceuticals, Inc.

(Exact Name of Registrant as Specified in Charter)

Delaware
(State or Other Jurisdiction
of Incorporation)

000-23186
(Commission
File Number)

62-1413174
(IRS Employer
Identification No.)

**4505 Emperor Blvd., Suite 200
Durham, North Carolina 27703**
(Address of Principal Executive Offices)

(919) 859-1302
(Registrant's telephone number, including area code)

(Former Name or Former Address, if Changed Since Last Report)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions (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 210.14d-2(b))
 - Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))
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Item 7.01. Regulation FD Disclosure.

On July 31, 2013, BioCryst Pharmaceuticals, Inc. (the “Company”) issued a press release announcing that the Company had priced the Offering (as defined below). On August 5, 2013, the Company issued a press release announcing that the Underwriters (as defined below) had exercised the Overallotment Option (as defined below) with respect to 600,000 shares of the Company’s common stock. Copies of these press releases are furnished and attached as Exhibit 99.1 and 99.2 hereto and are incorporated herein by reference. The information furnished is not deemed “filed” for purposes of Section 18 of the Securities Exchange Act of 1934, as amended, is not subject to the liabilities of that section and is not deemed incorporated by reference in any filing under the Securities Act of 1933, as amended (the “Securities Act”).

Item 8.01. Other Events.

On July 31, 2013, the Company entered into an underwriting agreement (the “Underwriting Agreement”) with Wells Fargo Securities, LLC and JMP Securities LLC, as representatives of the underwriters named in Exhibit A thereto (the “Underwriters”), with respect to the issuance and sale in an underwritten public offering (the “Offering”) by the Company of 4,000,000 shares of the Company’s common stock at a price to the public of \$4.40 per share. Pursuant to the Underwriting Agreement, the Company also granted the underwriters a 30-day option (the “Overallotment Option”) to purchase up to an additional 600,000 shares of the Company’s common stock if the underwriters sell more than 4,000,000 shares in the Offering. On August 1, 2013, the Underwriters exercised the Overallotment Option with respect to 600,000 shares of the Company’s common stock.

The Offering and the offer and sale of shares issued pursuant to the Overallotment Option have been registered under the Securities Act pursuant to a registration statement on Form S-3 (Registration No. 333-175182) of the Company (the “Registration Statement”), and the prospectus supplement dated July 31, 2013, filed with the Securities and Exchange Commission pursuant to Rule 424(b) of the Securities Act on August 2, 2013. Closing of the sale of the shares of common stock pursuant to the Offering and pursuant to the underwriters’ exercise of the Overallotment Option is expected to occur on August 6, 2013. The legal opinion of Gibson, Dunn & Crutcher LLP relating to the Registration Statement is filed herewith as Exhibit 5.1.

Item 9.01. Financial Statements and Exhibits.

(d) Exhibits

<u>Exhibit No.</u>	<u>Description</u>
1.1	Underwriting Agreement, dated July 31, 2013, by and among BioCryst Pharmaceuticals, Inc., and Wells Fargo Securities LLC and JMP Securities LLC, as representatives of the underwriters named in Exhibit A thereto.
5.1	Opinion of Gibson, Dunn & Crutcher LLP.
99.1	Press release dated August 1, 2013 entitled “BioCryst Announces Pricing of Public Offering of Common Stock”
99.2	Press release dated August 5, 2013 entitled “BioCryst Announces Full Exercise of Over Allotment Option”

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.

Dated: August 5, 2013

BioCryst Pharmaceuticals, Inc.

By: /s/ Alane Barnes

Alane Barnes

General Counsel, Corporate Secretary

EXHIBIT INDEX

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BIOCRYST PHARMACEUTICALS, INC.

4,000,000 Shares of Common Stock

UNDERWRITING AGREEMENT

Dated: July 31, 2013

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BIOCRYST PHARMACEUTICALS, INC.

4,000,000 Shares of Common Stock

UNDERWRITING AGREEMENT

July 31, 2013

Wells Fargo Securities, LLC
JMP Securities LLC
As Representatives of the several Underwriters

c/o Wells Fargo Securities, LLC
375 Park Avenue
New York, NY 10152

c/o JMP Securities LLC
600 Montgomery Street, Suite 1100
San Francisco, CA 94111

Ladies and Gentlemen:

BioCryst Pharmaceuticals, Inc., a Delaware corporation (the "Company"), confirms its agreement with Wells Fargo Securities, LLC ("Wells Fargo"), JMP Securities LLC ("JMP") and each of the other Underwriters named in Exhibit A hereto (collectively, the "Underwriters," which term shall also include any underwriter substituted as hereinafter provided in Section 10 hereof), for whom Wells Fargo and JMP are acting as representatives (in such capacity, the "Representatives"), with respect to the issue and sale by the Company of 4,000,000 shares (the "Initial Securities") of the Company's common stock, par value \$0.01 per share (the "Common Stock"), and the purchase by the Underwriters, acting severally and not jointly, of the respective numbers of Initial Securities set forth in said Exhibit A hereto, and with respect to the grant by the Company to the Underwriters, acting severally and not jointly, of the option described in Section 2(b) hereof to purchase all or any part of 600,000 additional shares of Common Stock to cover over-allotments, if any. The Initial Securities to be purchased by the Underwriters and all or any part of the 600,000 shares of Common Stock subject to the option described in Section 2(b) hereof (the "Option Securities") are hereinafter called, collectively, the "Securities." Certain terms used in this Agreement are defined in Section 15 hereof.

The Company understands that the Underwriters propose to make a public offering of the Securities as soon as the Representatives deem advisable after this Agreement has been executed and delivered.

The Company has prepared and previously delivered to you a preliminary prospectus supplement dated July 30, 2013 relating to the Securities and a related prospectus dated July 13, 2011 (the "Base Prospectus"). Such preliminary prospectus supplement and Base Prospectus, including the documents incorporated or deemed to be incorporated by reference therein pursuant to Item 12 of Form S-3 under the 1933 Act, are hereinafter called, collectively, the

“Pre-Pricing Prospectus.” Promptly after the execution and delivery of this Agreement, the Company will prepare and file with the Commission a prospectus supplement dated July 31, 2013 (the “Prospectus Supplement”) and will file the Prospectus Supplement and the Base Prospectus with the Commission, all in accordance with the provisions of Rule 430B and Rule 424(b), and the Company has previously advised you of all information (financial and other) that will be set forth therein. The Prospectus Supplement and the Base Prospectus, in the form first furnished to the Underwriters for use in connection with the offering of the Securities (whether to meet the request of purchasers pursuant to Rule 173(d) or otherwise), including the documents incorporated or deemed to be incorporated by reference therein pursuant to Item 12 of Form S-3 under the 1933 Act, are herein called, collectively, the “Prospectus.”

SECTION 1. Representations and Warranties.

(a) Representations and Warranties by the Company. The Company represents and warrants to each Underwriter as of the Applicable Time, as of the Closing Date referred to in Section 2(c) hereof, and as of each Option Closing Date (if any) referred to in Section 2(b) hereof, and agrees with each Underwriter, as follows:

(1) Compliance with Registration Requirements. The Company meets the requirements for use of Form S-3 under the 1933 Act and the Securities have been duly registered under the 1933 Act pursuant to the Registration Statement. Each of the Initial Registration Statement and any post-effective amendments thereto have been declared effective under the 1933 Act, any Rule 462(b) Registration Statement has become effective under the 1933 Act or, not later than 8:00 a.m. (New York City time) on the business day immediately after the date of this Agreement, will become effective under the 1933 Act, and no stop order suspending the effectiveness of the Initial Registration Statement or any Rule 462(b) Registration Statement has been issued under the 1933 Act and no proceedings for that purpose have been instituted or are pending or, to the knowledge of the Company, are contemplated by the Commission, and any request on the part of the Commission for additional information has been complied with. The Initial Registration Statement was initially filed with the Commission on June 28, 2011.

(2) Registration Statement, Prospectus and Disclosure at Time of Sale. At the respective times that the Initial Registration Statement, any Rule 462(b) Registration Statement and any amendments thereto became effective, at each time subsequent to the filing of the Initial Registration Statement that the Company filed an Annual Report on Form 10-K (or any amendment thereto) with the Commission, at each deemed effective date with respect to the Underwriters pursuant to Rule 430B(f)(2), and at the Closing Date (and, if any Option Securities are purchased, at the applicable Option Closing Date), the Initial Registration Statement, any Rule 462(b) Registration Statement and any amendments to any of the foregoing complied and will comply in all material respects with the requirements of the 1933 Act and the 1933 Act Regulations and did not and will 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.

At the respective times the Prospectus or any amendment or supplement thereto was filed pursuant to Rule 424(b) or issued, at the Closing Date (and, if any Option

Securities are purchased, at the applicable Option Closing Date), and at any time when a prospectus is required (or, but for the provisions of Rule 172, would be required) by applicable law to be delivered in connection with sales of Securities (whether to meet the requests of purchasers pursuant to Rule 173(d) or otherwise), neither the Prospectus nor any amendments or supplements thereto included or will include an untrue statement of a material fact or omitted or will omit to state a material fact necessary in order to make the statements therein, in the light of the circumstances under which they were made, not misleading.

As of the Applicable Time (except in the case of clause (z) below) and as of the Closing Date, neither (x) any Issuer General Use Free Writing Prospectuses, if any, issued at or prior to the Applicable Time, the Pre-Pricing Prospectus as of the Applicable Time and the information, if any, included on Exhibit E hereto, all considered together (collectively, the “General Disclosure Package”), nor (y) any individual Issuer Limited Use Free Writing Prospectus, when considered together with the General Disclosure Package, nor (z) any Issuer General Use Free Writing Prospectuses issued subsequent to the Applicable Time, when considered together with the General Disclosure Package, included or will include an untrue statement of a material fact or omitted or will omit to state a material fact necessary in order to make the statements therein, in the light of the circumstances under which they were made, not misleading.

Each preliminary prospectus and the Prospectus and any amendments or supplements to any of the foregoing filed as part of the Registration Statement or any amendment thereto, or filed pursuant to Rule 424 under the 1933 Act, or delivered to the Underwriters for use in connection with the offering of the Securities, complied when so filed or when so delivered, as the case may be, in all material respects with the 1933 Act and the 1933 Act Regulations.

The representations and warranties in the preceding paragraphs of this Section 1(a)(2) do not apply to statements in or omissions from the Registration Statement, any preliminary prospectus, the Prospectus or any Issuer Free Writing Prospectus or any amendment or supplement to any of the foregoing made in reliance upon and in conformity with written information furnished to the Company by any Underwriter through the Representatives expressly for use therein, it being understood and agreed that the only such information furnished by the Underwriters as aforesaid consists of the information described as such in Section 6(b) hereof.

At the respective times that the Initial Registration Statement, any Rule 462(b) Registration Statement or any amendment to any of the foregoing were filed and at the date hereof, the Company was not and is not an “ineligible issuer” as defined in Rule 405, in each case without taking into account any determination made by the Commission pursuant to paragraph (2) of the definition of such term in Rule 405; and, without limitation to the foregoing, the Company has at all relevant times met, meets and will at all relevant times meet the requirements of Rule 164 for the use of a free writing prospectus (as defined in Rule 405) in connection with the offering contemplated hereby.

The copies of the Initial Registration Statement and any Rule 462(b) Registration Statement and any amendments to any of the foregoing and the copies of each preliminary prospectus, each Issuer Free Writing Prospectus that is required to be filed with the Commission pursuant to Rule 433 and the Prospectus and any amendments or supplements to any of the foregoing, that have been or subsequently are delivered to the Underwriters in connection with the offering of the Securities (whether to meet the request of purchasers pursuant to Rule 173(d) or otherwise) were and will be identical to the electronically transmitted copies thereof filed with the Commission pursuant to EDGAR, except to the extent permitted by Regulation S-T. For purposes of this Agreement, references to the “delivery” or “furnishing” of any of the foregoing documents to the Underwriters, and any similar terms, include, without limitation, electronic delivery.

The Company has made available a “bona fide electronic road show” (as defined in Rule 433(h)) in compliance with Rule 433(d)(8)(ii) such that no filing with the Commission of any “road show” (as defined in Rule 433(h)) is required in connection with the offering of the Securities.

Each Issuer Free Writing Prospectus (if any), as of its issue date and at all subsequent times through the completion of the public offering and sale of the Securities did not, does not and will not include any information that conflicted, conflicts or will conflict with the information contained in the Registration Statement, any preliminary prospectus or the Prospectus that has not been superseded or modified.

(3) Incorporated Documents. The documents incorporated or deemed to be incorporated by reference in the Registration Statement, any preliminary prospectus and the Prospectus, at the respective times they were or hereafter are filed with the Commission, complied and will comply in all material respects with the requirements of the 1934 Act and the 1934 Act Regulations and did not and will 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.

(4) Independent Accountants. The accountants who certified the financial statements and any supporting schedules included in the Registration Statement, the General Disclosure Package and the Prospectus are independent public accountants as required by the 1933 Act, the 1933 Act Regulations, the 1934 Act and the 1934 Act Regulations, as applicable, and the PCAOB.

(5) Financial Statements. The financial statements of the Company included in the Registration Statement, the General Disclosure Package and the Prospectus, together with the related schedules (if any) and notes, present fairly the financial position of the Company and its consolidated subsidiaries at the dates indicated and the results of operations, changes in stockholders’ equity and cash flows of the Company and its consolidated subsidiaries for the periods specified; and all such financial statements have been prepared in conformity with GAAP applied on a consistent basis throughout the periods involved and comply with all applicable accounting requirements under the 1933 Act, the 1933 Act Regulations, the 1934 Act and the 1934 Act Regulations, as applicable.

The supporting schedules, if any, included in the Registration Statement present fairly, in accordance with GAAP, the information required to be stated therein. Any “non-GAAP financial measures” (as such term is defined in the rules and regulations of the Commission) contained in the Registration Statement, the General Disclosure Package and the Prospectus comply with Item 10 of Regulation S-K of the Commission, to the extent applicable.

(6) No Material Adverse Change in Business. Since the respective dates as of which information is given in the Registration Statement, the General Disclosure Package and the Prospectus (in each case exclusive of any amendments or supplements thereto subsequent to the date of this Agreement), (A) 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 other), results of operations, business, properties, management or prospects of the Company and its subsidiaries taken as a whole, whether or not arising in the ordinary course of business (in any such case, a “Material Adverse Effect”); (B) except as otherwise disclosed in the General Disclosure Package and the Prospectus (in each case exclusive of any amendments or supplements thereto subsequent to the date of this Agreement), neither the Company nor any of its subsidiaries has incurred any liability or obligation or entered into any transaction or agreement that, individually or in the aggregate, is material with respect to the Company and its subsidiaries taken as a whole, and neither the Company nor any of its subsidiaries has sustained any loss or interference with its business or operations from fire, explosion, flood, earthquake or other natural disaster or calamity, whether or not covered by insurance, or from any labor dispute or disturbance or court or governmental action, order or decree which could reasonably be expected, individually or in the aggregate, to result in a Material Adverse Effect; and (C) there has been no dividend or distribution of any kind declared, paid or made by the Company on any class of its capital stock.

(7) Good Standing of the Company. The Company has been duly organized and is validly existing as a corporation in good standing under the laws of the State of Delaware and has power and authority to own, lease and operate its properties and to conduct its business as described in the Registration Statement, the General Disclosure Package and the Prospectus and to enter into and perform its obligations under this Agreement; and the Company is duly qualified as a foreign corporation to transact business and is in good standing in the State of North Carolina and the State of Alabama and in each other jurisdiction in which such qualification is required, whether by reason of the ownership or leasing of property or the conduct of business, except (solely in the case of jurisdictions other than the State of North Carolina and the State of Alabama) where the failure so to qualify or to be in good standing would not, individually or in the aggregate, result in a Material Adverse Effect.

(8) Good Standing of Subsidiaries. Each subsidiary of the Company has been duly organized and is validly existing as a corporation or limited liability company, as the case may be, in good standing under the laws of the jurisdiction of its organization, has power and authority to own, lease and operate its properties and to conduct its business as described in the Registration Statement, the General Disclosure Package or the Prospectus and is duly qualified as a foreign corporation or limited liability company, as

the case may be, to transact business and is in good standing in each jurisdiction in which such qualification is required, whether by reason of the ownership or leasing of property or the conduct of business, except where the failure so to qualify or to be in good standing would not, individually or in the aggregate, result in a Material Adverse Effect; except as otherwise disclosed in the Registration Statement, the General Disclosure Package and the Prospectus, all of the issued and outstanding shares of capital stock of each such subsidiary that is a corporation and all of the issued and outstanding limited liability company interests, membership interests or other similar interests of each such subsidiary that is a limited liability company have been duly authorized and validly issued, are fully paid and non-assessable and are owned by the Company, directly or through subsidiaries, free and clear of any Lien; and none of the issued and outstanding shares of capital stock of any such subsidiary that is a corporation and none of the issued and outstanding limited liability company interests, membership interests or other similar interests of any such subsidiary that is a limited liability company were issued in violation of any preemptive rights, rights of first refusal or other similar rights of any securityholder of such subsidiary or any other person. The only subsidiaries of the Company are the subsidiaries listed on Exhibit B hereto and Exhibit B accurately sets forth whether each such subsidiary is a corporation or limited liability company and the jurisdiction of organization of each such subsidiary and, in the case of any subsidiary which is a limited liability company, its managing members.

(9) Capitalization. The authorized, issued and outstanding capital stock of the Company is as set forth in the Pre-Pricing Prospectus and the Prospectus (in each case except for subsequent issuances, if any, pursuant to employee or director stock option, stock purchase or other equity incentive plans described in the Pre-Pricing Prospectus and the Prospectus, upon the exercise of options issued pursuant to any such stock option, stock purchase or other equity incentive plans as so described, or upon the exercise of options described in the General Disclosure Package and the Prospectus). The shares of issued and outstanding capital stock of the Company have been duly authorized and validly issued and are fully paid and non-assessable and were issued in compliance with all applicable foreign, state and federal securities and “blue-sky” laws; and none of the outstanding shares of capital stock of the Company was issued in violation of any preemptive rights, rights of first refusal or other similar rights of any securityholder of the Company or any other person.

(10) Authorization of Agreement. This Agreement has been duly authorized, executed and delivered by the Company.

(11) Authorization of Securities. The Securities to be sold by the Company under this Agreement have been duly authorized for issuance and sale to the Underwriters pursuant to this Agreement and, when issued and delivered by the Company pursuant to this Agreement against payment of the consideration set forth herein, will be validly issued, fully paid and non-assessable; no holder of the Securities is or will be subject to personal liability by reason of being such a holder; and the issuance and sale of the Securities by the Company under this Agreement are not subject to any preemptive rights, rights of first refusal or other similar rights of any securityholder of the Company or any other person.

(12) Description of Securities. The Common Stock, the authorized but unissued Preferred Stock, any classes or series of Preferred Stock outstanding on the date of this Agreement, and the Company's charter and bylaws conform in all material respects to all of the respective statements relating thereto contained in the Registration Statement, the General Disclosure Package and the Prospectus and such statements conform to the rights set forth in the respective instruments and agreements defining the same.

(13) Absence of Defaults and Conflicts. Neither the Company nor any of its subsidiaries is in violation of its Organizational Documents or in default in the performance or observance of any obligation, agreement, covenant or condition contained in any Company Document, except for such defaults that would not, individually or in the aggregate, result in a Material Adverse Effect. The execution, delivery and performance of this Agreement and the consummation of the transactions contemplated herein and in the Registration Statement, the General Disclosure Package and the Prospectus (including the issuance and sale of the Securities and the use of the proceeds from the sale of the Securities as described in the Pre-Pricing Prospectus and the Prospectus under the caption "Use of Proceeds") and compliance by the Company with its obligations under this Agreement do not and will not, whether with or without the giving of notice or passage of time or both, conflict with or constitute a breach of, or default, Termination Event or Repayment Event under, or result in the creation or imposition of any Lien upon any property or assets of the Company or any of its subsidiaries pursuant to, any Company Documents, except for such conflicts, breaches, defaults or Liens that would not, individually or in the aggregate, result in a Material Adverse Effect, nor will such action result in any violation of (i) the provisions of the Organizational Documents of the Company or any of its subsidiaries or (ii) any applicable law, statute, rule, regulation, judgment, order, writ or decree of any government, government instrumentality or court, domestic or foreign, having jurisdiction over the Company or any of its subsidiaries or any of their respective assets, properties or operations, except in the case of clause (ii) only, for any such violation that would not reasonably be expected to result in a Material Adverse Effect.

(14) Absence of Labor Dispute. No labor dispute with the employees of the Company or any subsidiary of the Company exists or, to the knowledge of the Company, is imminent, and the Company is not aware of any existing or imminent labor disturbance by the employees of any of the principal suppliers, manufacturers, customers or contractors of the Company or any of its subsidiaries, in either case which might reasonably be expected, individually or in the aggregate, to result in a Material Adverse Effect.

(15) Absence of Proceedings. There is no action, suit, proceeding, inquiry or investigation before or brought by any court or governmental agency or body, domestic or foreign, now pending, or, to the knowledge of the Company, threatened, against or affecting the Company or any of its subsidiaries which is required to be disclosed in the Registration Statement, the Pre-Pricing Prospectus or the Prospectus (other than as disclosed therein), or which might reasonably be expected, individually or in the aggregate, to result in a Material Adverse Effect or to materially and adversely affect the

consummation of the transactions contemplated in this Agreement or the performance by the Company of its obligations under this Agreement; the aggregate of all pending legal or governmental proceedings to which the Company or any of its subsidiaries is a party or of which any of their respective property or assets is the subject which are not described in the Registration Statement, the Pre-Pricing Prospectus and the Prospectus, including ordinary routine litigation incidental to the business, would not reasonably be expected, individually or in the aggregate, to result in a Material Adverse Effect.

(16) Accuracy of Descriptions and Exhibits. The information in the Pre-Pricing Prospectus and the Prospectus under the captions “Risk Factors,” “Management’s Discussion and Analysis of Financial Condition and Results of Operations,” “Business – Patents and Proprietary Information,” “Business – Corporate Restructuring,” “Business – Collaborations and In-License Relationships,” “Business – Government Contracts,” “Business – Government Regulation,” “Legal Proceedings,” “Equity Compensation Plan Information,” “Certain Relationships or Related Transactions, and Director Independence,” “Descriptions of Common Stock, Preferred Stock and Depositary Shares,” and “Description of Capital Stock,” and the information in the Registration Statement under Items 14 and 15, in each case to the extent that it constitutes matters of law, summaries of legal matters, summaries of provisions of the Company’s charter or bylaws or any other instruments or agreements, summaries of legal proceedings, or legal conclusions, is correct in all material respects; all descriptions in the Registration Statement, the General Disclosure Package and the Prospectus of any Company Documents are accurate in all material respects; and there are no franchises, contracts, indentures, mortgages, deeds of trust, loan or credit agreements, bonds, notes, debentures, evidences of indebtedness, leases or other instruments or agreements required to be described or referred to in the Registration Statement, the Pre-Pricing Prospectus or the Prospectus or to be filed as exhibits to the Registration Statement which have not been so described and filed as required.

(17) Possession of Intellectual Property. The Company and its subsidiaries own, possess, have valid and enforceable licenses to use, or otherwise have the right to use on reasonable terms all patents, patent rights, patent applications, licenses, inventions, copyrights, inventions, know-how (including trade secrets and other unpatented and/or unpatentable proprietary or confidential information, systems or procedures), trade marks, service marks, trade names, service names, software, internet addresses, licenses, domain names and other intellectual property, including registrations and applications for registration thereof (collectively, “Intellectual Property”) that is described in the Registration Statement, the General Disclosure Package or the Prospectus or that is necessary for the conduct of their respective businesses as currently conducted or as proposed to be conducted and as described in the Registration Statement, the General Disclosure Package and the Prospectus; and neither the Company nor any of its subsidiaries has received any notice or is otherwise aware of any infringement of or conflict with rights of others with respect to any Intellectual Property or of any facts or circumstances which would render any Intellectual Property invalid or inadequate to protect the interest of the Company or any of its subsidiaries therein which might reasonably be expected, individually or in the aggregate, to result in a Material Adverse Effect. Without limitation to the foregoing, (i) there are no third parties who have or, to

the Company's knowledge, will be able to establish rights to any Intellectual Property of the Company or any of its subsidiaries, except for, and to the extent of, the ownership rights of the owners of the Intellectual Property which the Registration Statement, the General Disclosure Package and the Prospectus disclose is licensed to the Company or any of its subsidiaries; (ii) none of the Intellectual Property owned by the Company and, to the Company's knowledge, licensed to the Company, has been adjudged invalid or unenforceable in whole or in part, and there is no pending or, to the Company's knowledge, threatened action, suit, proceeding or claim by others challenging the Company's or any subsidiary's rights in or to any such Intellectual Property, or challenging the validity, enforceability or scope of any such Intellectual Property, or asserting that the Company or any subsidiary infringes or otherwise misappropriates or violates, or would, upon the commercialization of any product or service described in the Registration Statement, the General Disclosure Package or the Prospectus, infringe or otherwise misappropriate or violate, any Intellectual Property of others, and the Company is unaware of any facts which could form a reasonable basis for any such action, suit, proceeding or claim; (iii) the Company and its subsidiaries have complied with the terms of each agreement pursuant to which any Intellectual Property has been licensed to the Company or any subsidiary, and all such agreements are in full force and effect; (iv) there is no patent or patent application that contains claims that dominate, may dominate or interfere with the issued or pending claims of any patent or patent application included in such Intellectual Property of the Company or any of its subsidiaries or that challenges the validity, enforceability or scope of any such patent or patent application, and there is no prior art of which the Company is aware that may render any U.S. patent held by the Company invalid or any U.S. patent application held by the Company unpatentable which has not been disclosed to the U.S. Patent and Trademark Office; (v) to the Company's knowledge, there is no material infringement, misappropriation or other violation by third parties of any such Intellectual Property; (vi) none of the Intellectual Property used by the Company in its business has been obtained or is being used by the Company in violation of any contractual obligation binding on the Company or in violation of the rights of any third parties; (viii) the Company is not aware of any facts that it believes would form a reasonable basis for a successful challenge that any of its employees are in or have ever been in violation of any term of any employment contract, patent disclosure agreement, invention assignment agreement, non-competition agreement, non-solicitation agreement, nondisclosure agreement or any restrictive covenant to or with a former employer where such violation relates to such employee's breach of a confidentiality obligation, obligation to assign to the company Intellectual Property, or obligation not to use third party Intellectual Property or other proprietary rights on behalf of the Company; and (ix) the Company is not a party to or bound by any options, licenses or other agreements with respect to the Company's or any third party's Intellectual Property that are required to be described in the Registration Statement, the Pre-Pricing Prospectus or the Prospectus, but are not described in all material respects in the Registration Statement, the Pre-Pricing Prospectus or the Prospectus, as applicable.

(18) Absence of Further Requirements. (A) No filing with, or authorization, approval, consent, license, order, registration, qualification or decree of, any court or governmental authority or agency, domestic or foreign, (B) no authorization, approval, vote or consent of any holder of capital stock or other securities of the Company or

creditor of the Company or any of its subsidiaries, (C) no authorization, approval, waiver or consent under any Company Document, and (D) no authorization, approval, vote or consent of any other person or entity, is necessary or required for the authorization, execution, delivery or performance by the Company of this Agreement, for the offering of the Securities as contemplated by this Agreement, for the issuance, sale or delivery of the Securities hereunder, or for the consummation of any of the other transactions contemplated by this Agreement, in each case on the terms contemplated by the Registration Statement, the General Disclosure Package and the Prospectus, except (i) such as have been obtained under the 1933 Act, the 1933 Act Regulations, the 1934 Act and the 1934 Act Regulations, (ii) for the filing of any Rule 462(b) Registration Statement, and (iii) that no representation is made as to such as may be required under state or foreign securities laws.

(19) Possession of Licenses and Permits. The Company and its subsidiaries possess such permits, licenses, approvals, registrations, certifications, consents and other authorizations (collectively, “Governmental Licenses”) issued by the appropriate federal, state, local or foreign regulatory agencies or bodies necessary to conduct the business now operated by them as set forth in the Pre-Pricing Prospectus; the Company and its subsidiaries are in compliance with the terms and conditions of all such Governmental Licenses, except where the failure so to comply would not, individually or in the aggregate, result in a Material Adverse Effect; all of the Governmental Licenses are valid and in full force and effect; and neither the Company nor any of its subsidiaries has received, or has reason to believe that it will receive, any notice of proceedings relating to the revocation, suspension or modification of any such Governmental Licenses.

(20) Title to Property. The Company and its subsidiaries do not own any real property and have good title to all personal property and assets owned by any of them, in each case, free and clear of all Liens except such as (a) are described in the Registration Statement, the General Disclosure Package and the Prospectus or (b) are not, individually or in the aggregate, material to the Company and its subsidiaries taken as a whole, are not required to be disclosed in the Registration Statement, the Pre-Pricing Prospectus or the Prospectus and 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 or any of its subsidiaries; all real property, buildings and other improvements, and all equipment and other property held under lease or sublease by the Company or any of its subsidiaries is held by them under valid, subsisting and enforceable leases or subleases, as the case may be, with, solely in the case of leases or subleases relating to real property, buildings or other improvements, such exceptions as are not material and do not interfere with the use made or proposed to be made of such property and buildings or other improvements by the Company and its subsidiaries, and all such leases and subleases are in full force and effect; and neither the Company nor any of its subsidiaries has any notice of any claim of any sort that has been asserted by anyone adverse to the rights of the Company or any of its subsidiaries under any of the leases or subleases mentioned above or affecting or questioning the rights of the Company or any of its subsidiaries to the continued possession of the leased or subleased premises under any such lease or sublease except for such claims which, if successfully

asserted against the Company or any of its subsidiaries, would not, individually or in the aggregate, result in a Material Adverse Effect.

(21) Investment Company Act. The Company is not, and upon the issuance and sale of the Securities as herein contemplated and the receipt and application of the net proceeds therefrom as described in the General Disclosure Package and the Prospectus under the caption "Use Of Proceeds," will not be, an "investment company" or an entity "controlled" by an "investment company" as such terms are defined in the 1940 Act.

(22) Environmental Laws. Except as described in the Registration Statement, the General Disclosure Package and the Prospectus and except as would not, individually or in the aggregate, result in a Material Adverse Effect, (A) neither the Company nor any of its subsidiaries is in violation of any federal, state, local or foreign statute, law, rule, regulation, ordinance, code, policy or rule of common law or any judicial or administrative interpretation thereof, including any judicial or administrative order, consent, decree or judgment, relating to pollution or protection of human health, the environment (including, without limitation, ambient air, surface water, groundwater, land surface or subsurface strata) or wildlife, including, without limitation, laws and regulations relating to the release or threatened release of chemicals, pollutants, contaminants, wastes, toxic substances, hazardous substances, petroleum or petroleum products (collectively, "Hazardous Materials") or to the manufacture, processing, distribution, use, treatment, storage, disposal, transport or handling of Hazardous Materials (collectively, "Environmental Laws"), (B) the Company and its subsidiaries have all permits, authorizations and approvals required under any applicable Environmental Laws and are each in compliance with their requirements, (C) there are no pending or threatened administrative, regulatory or judicial actions, suits, demands, demand letters, claims, Liens, notices of noncompliance or violation, investigation or proceedings relating to any Environmental Law against the Company or any of its subsidiaries and (D) there are no events or circumstances 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 or any of its subsidiaries relating to Hazardous Materials or any Environmental Laws.

(23) Absence of Registration Rights. There are no persons with registration rights or other similar rights to have any securities (debt or equity) (A) registered pursuant to the Registration Statement or included in the offering contemplated by this Agreement or (B) otherwise registered by the Company under the 1933 Act, and there are no persons with co-sale rights, tag-along rights or other similar rights to have any securities (debt or equity) included in the offering contemplated by this Agreement or sold in connection with the sale of Securities, except in each case for such rights that have been duly waived in writing; and the Company has given all notices required by, and has otherwise complied with its obligations under, all registration rights agreements, co-sale agreements, tag-along agreements and other similar agreements in connection with the transactions contemplated by this Agreement.

(24) Parties to Lock-Up Agreements. Each of the persons listed on Exhibit C hereto has executed and delivered to the Representatives a lock-up agreement in the form of Exhibit D hereto. Exhibit C hereto contains a true, complete and correct list of all directors and executive officers of the Company.

(25) Nasdaq. The outstanding shares of Common Stock are listed on the Nasdaq Global Select Market and the Securities being sold hereunder by the Company have been approved for listing, subject only to official notice of issuance, on the Nasdaq Global Select Market.

(26) FINRA Matters. The Company was, at the time the Initial Registration Statement was first filed with the Commission, and at all times thereafter has been, eligible to use Form S-3 pursuant to the standards for that form in effect immediately prior to October 21, 1992.

(27) Tax Returns. The Company and its subsidiaries have filed all foreign, federal, state and local tax returns that are required to be filed or have obtained extensions thereof, except where the failure so to file would not, individually or in the aggregate, result in a Material Adverse Effect, and have paid all taxes (including, without limitation, any estimated taxes) required to be paid and any other assessment, fine or penalty, to the extent that any of the foregoing is due and payable, except for any such tax, assessment, fine or penalty that is currently being contested in good faith by appropriate actions and except for such taxes, assessments, fines or penalties the nonpayment of which would not, individually or in the aggregate, result in a Material Adverse Effect.

(28) Insurance. The Company and its subsidiaries are insured by insurers of recognized financial responsibility against such losses and risks and in such amounts as are prudent and customary in the businesses in which they are engaged; all policies of insurance and any fidelity or surety bonds insuring the Company or any of its subsidiaries or their respective businesses, assets, employees, officers and directors are in full force and effect; the Company and its subsidiaries are in compliance with the terms of such policies and instruments in all material respects; there are no claims by the Company or any of its subsidiaries under any such policy or instrument as to which any insurance company is denying liability or defending under a reservation of rights clause; neither the Company nor any such subsidiary has been refused any insurance coverage sought or applied for; and neither the Company nor any such subsidiary has any reason to believe that it will not be able to renew its existing insurance coverage as and when such coverage expires or to obtain similar coverage from similar insurers at a cost that would not, individually or in the aggregate, result in a Material Adverse Effect.

(29) Accounting and Disclosure Controls. The Company and its subsidiaries maintain and have established and maintained effective “internal control over financial reporting” (as defined in Rule 13a-15 of the 1934 Act Regulations). The Company and its subsidiaries maintain a system of internal accounting controls sufficient to provide reasonable assurance that (A) transactions are executed in accordance with management’s general or specific authorizations; (B) transactions are recorded as necessary to permit preparation of financial statements in conformity with GAAP and to maintain asset

accountability; (C) access to assets is permitted only in accordance with management's general or specific authorization; and (D) the recorded accountability for assets is compared with the existing assets at reasonable intervals and appropriate action is taken with respect to any differences. Except as described in the Registration Statement, the General Disclosure Package and the Prospectus, there has not been (1) at any time during the Company's three consecutive fiscal years ended with and including the Company's most recent fiscal year for which audited financial statements are included in the Registration Statement, the General Disclosure Package and the Prospectus or at any time subsequent thereto, any material weakness (as defined in Rule 1-02 of Regulation S-X of the Commission) in the Company's internal control over financial reporting (whether or not remediated), or (2) any fraud, whether or not material, involving management or other employees who have a role in the Company's internal control over financial reporting and, since the end of the Company's most recent fiscal year for which audited financial statements are included in the Registration Statement, the General Disclosure Package and the Prospectus, there has been 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. The Company and its subsidiaries have established, maintained and periodically evaluate the effectiveness of "disclosure controls and procedures" (as defined in Rule 13a-15 of the 1934 Act Regulations and Section 15d-15 of the 1934 Act); such disclosure controls and procedures are designed to ensure that information required to be disclosed by the Company in the reports that it files or submits under the 1934 Act and the interactive data in eXtensible Business Reporting Language included as an exhibit to the Registration Statement or incorporated by reference in the Registration Statement are recorded, processed, summarized and reported, within the time periods specified in the Commission's rules and forms, and is accumulated and communicated to the Company's management, including its principal executive officer or officers and principal financial officer or officers, as appropriate, to allow timely decisions regarding disclosure.

The Company's independent public accountants and the audit committee of the Company's board of directors have been advised of all material weaknesses, if any, and significant deficiencies (as defined in Rule 1-02 of Regulation S-X of the Commission), if any, in the Company's internal control over financial reporting and of all fraud, if any, whether or not material, involving management or other employees who have a role in the Company's internal control over financial reporting, in each case that occurred or existed, or was first detected, at any time during the Company's five consecutive fiscal years ended with and including the Company's most recent fiscal year for which audited financial statements are included in the Registration Statement, the General Disclosure Package and the Prospectus or at any time subsequent thereto.

(30) 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 with any provision of the Sarbanes-Oxley Act with which any of them is required to comply, including Section 402 related to loans and Sections 302 and 906 related to certifications.

(31) Pending Proceedings and Examinations; Comment Letters. The Registration Statement is not the subject of a pending proceeding or examination under Section 8(d) or 8(e) of the 1933 Act, and the Company is not the subject of a pending proceeding under Section 8A of the 1933 Act. The Company has provided the Representatives with true, complete and correct copies of any written comments received from the Commission by the Company or its legal counsel or accountants, and of any transcripts made by the Company, its legal counsel or accountants of any oral comments received from the Commission, with respect to the Registration Statement, any preliminary prospectus, the Prospectus, any Issuer Free Writing Prospectus or any document incorporated or deemed to be incorporated by reference therein and of all written responses thereto (in each case other than comment letters or written responses that are publicly available on EDGAR), and no such comments remain unresolved.

(32) Absence of Manipulation. The Company has not taken and will not take, directly or indirectly, any action designed to or that would constitute or that might reasonably be expected to cause or result in the stabilization or manipulation of the price of any security to facilitate the sale or resale of the Securities.

(33) Statistical, Clinical and Market-Related Data. Any statistical, clinical, medical, therapeutic, demographic or market-related and similar data included in the Registration Statement, the General Disclosure Package or the Prospectus are based on or derived from sources that the Company believes to be reliable and accurate and accurately reflect the materials upon which such data is based or from which it was derived, and the Company has delivered true, complete and correct copies of such materials to the Representatives.

(34) Foreign Corrupt Practices Act. Neither the Company nor any of its subsidiaries nor, to the knowledge of the Company, any director, officer, agent, employee, affiliate or other person acting on behalf of the Company or any of its subsidiaries is aware of or has taken any action, directly or indirectly, that has resulted or would result in a violation by any such person of the FCPA, including, without limitation, any offer, payment, promise to pay or authorization of the payment of any money, or other property, gift, promise to give, or authorization of the giving of anything of value to any “foreign official” (as such term is defined in the FCPA) or any foreign political party or official thereof or any candidate for foreign political office, in contravention of the FCPA; and the Company and its subsidiaries and, to the knowledge of the Company, its other affiliates have conducted their businesses in compliance with the FCPA.

(35) Money Laundering Laws. The operations of the Company and its subsidiaries are and have been conducted at all times in compliance with applicable financial recordkeeping and reporting requirements of the Currency and Foreign Transactions Reporting Act of 1970, as amended, the money laundering statutes of all applicable jurisdictions, the rules and regulations thereunder and any related or similar rules, regulations or guidelines, issued, administered or enforced by any governmental agency (collectively, “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 or any of its subsidiaries with respect to the Money Laundering Laws is pending or, to the knowledge of the Company, threatened.

(36) OFAC. Neither the Company nor any of its subsidiaries nor, to the knowledge of the Company, any director, officer, agent, employee, affiliate or other person acting on behalf of the Company or any of its subsidiaries is currently subject to any U.S. sanctions administered by OFAC; and the Company will not directly or indirectly use any of the proceeds from the sale of Securities by the Company in the offering contemplated by this Agreement, or lend, contribute or otherwise make available any such proceeds to any subsidiary, joint venture partner or other person or entity, for the purpose of financing the activities of any person currently subject to any U.S. sanctions administered by OFAC.

(37) ERISA Compliance. None of the following events has occurred or exists: (i) a failure to fulfill the obligations, if any, under the minimum funding standards of Section 302 of ERISA with respect to a Plan (as defined below) determined without regard to any waiver of such obligations or extension of any amortization period; (ii) an audit or investigation by the Internal Revenue Service, the U.S. Department of Labor, the Pension Benefit Guaranty Corporation or any other federal, state or foreign governmental or regulatory agency with respect to the employment or compensation of employees by the Company or any of its subsidiaries that might reasonably be expected, individually or in the aggregate, to result in a Material Adverse Effect; or (iii) any breach of any contractual obligation, or any violation of law or applicable qualification standards, with respect to the employment or compensation of employees by the Company or any of its subsidiaries that might reasonably be expected, individually or in the aggregate, to result in a Material Adverse Effect. None of the following events has occurred or is reasonably likely to occur: (i) a material increase in the aggregate amount of contributions required to be made to all Plans in the current fiscal year of the Company and its subsidiaries compared to the amount of such contributions made in the Company's most recently completed fiscal year; (ii) a material increase in the "accumulated post-retirement benefit obligations" (within the meaning of Statement of Financial Accounting Standards 106) of the Company and its subsidiaries compared to the amount of such obligations in the Company's most recently completed fiscal year; (iii) any event or condition giving rise to a liability under Title IV of ERISA that might reasonably be expected, individually or in the aggregate, to result in a Material Adverse Effect; or (iv) the filing of a claim by one or more employees or former employees of the Company or any of its subsidiaries related to its or their employment that might reasonably be expected, individually or in the aggregate, to result in a Material Adverse Effect. For purposes of this paragraph and the definition of ERISA, the term "Plan" means a plan (within the meaning of Section 3(3) of ERISA) with respect to which the Company or any of its subsidiaries may have any liability.

(38) Lending and Other Relationship. Except as disclosed in the Registration Statement, the General Disclosure Package and the Prospectus, (i) neither the Company nor any of its subsidiaries has any lending or similar relationship with any Underwriter or any bank or other lending institution affiliated with any Underwriter; (ii) the Company will not, directly or indirectly, use any of the proceeds from the sale of the Securities by

the Company hereunder to reduce or retire the balance of any loan or credit facility extended by any Underwriter or any of its “affiliates” or “associated persons” (as such terms are used in FINRA Rule 5121) or otherwise direct any such proceeds to any Underwriter or any of its “affiliates” or “associated persons” (as so defined); and (iii) there are and have been no transactions, arrangements or dealings between the Company or any of its subsidiaries, on one hand, and any Underwriter or any of its “affiliates” or “associated persons” (as so defined), on the other hand, that, under FINRA Rule 5110 or 5121, must be disclosed in a submission to FINRA in connection with the offering of the Securities contemplated hereby or disclosed in the Registration Statement, the General Disclosure Package or Prospectus.

(39) Changes in Management. Except as disclosed in the Registration Statement, the General Disclosure Package and the Prospectus, none of the persons who were officers or directors of the Company as of the date of the Pre-Pricing Prospectus has given oral or written notice to the Company or any of its subsidiaries of his or her resignation (or otherwise indicated to the Company or any of its subsidiaries an intention to resign within the next 24 months), nor has any such officer or director been terminated by the Company or otherwise removed from his or her office or from the board of directors, as the case may be (including, without limitation, any such termination or removal which is to be effective as of a future date) nor is any such termination or removal under consideration by the Company or its board of directors.

(40) Related Party Transactions. There are no business relationships or related party transactions involving the Company or any of its subsidiaries or, to the knowledge of the Company, any other person that are required to be described in the Pre-Pricing Prospectus or the Prospectus that have not been described as required.

(41) Offering Materials. Without limitation to the provisions of Section 16 hereof, the Company has not distributed and will not distribute, directly or indirectly (other than through the Underwriters), any “written communication” (as defined Rule 405 under the 1933 Act) or other offering materials in connection with the offering or sale of the Securities, other than the Pre-Pricing Prospectus, the Prospectus, any amendment or supplement to any of the foregoing that are filed with the SEC and any Permitted Free Writing Prospectuses (as defined in Section 16).

(42) No Restrictions on Dividends. Except as otherwise disclosed in the General Disclosure Package and the Prospectus, neither the Company nor any of its subsidiaries is a party to or otherwise bound by any instrument or agreement that limits or prohibits or could limit or prohibit, directly or indirectly, the Company from paying any dividends or making other distributions on its capital stock, and no subsidiary of the Company is a party to or otherwise bound by any instrument or agreement that limits or prohibits or could limit or prohibit, directly or indirectly, any subsidiary of the Company from paying any dividends or making any other distributions on its capital stock, limited liability company interests, or other equity interests, as the case may be, or from repaying any loans or advances from, or (except for instruments or agreements that by their express terms prohibit the transfer or assignment thereof or of any rights thereunder) transferring any of its properties or assets to, the Company or any other subsidiary, in

each case except as described in the Registration Statement, the General Disclosure Package and the Prospectus.

(43) Brokers. There is not a 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 of the transactions contemplated by this Agreement, except for underwriting discounts and commissions in connection with the sale of the Securities to the Underwriters pursuant to this Agreement.

(44) Interactive Data. The interactive data in eXtensible Business Reporting Language included as an exhibit to the Registration Statement or incorporated by reference in the Registration Statement 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.

(45) Absence of Legislation, Rulemaking or Similar Proceedings. Except as described in the Registration Statement, the General Disclosure Package and the Prospectus, there is no pending federal legislation and no rulemaking, guidance drafting, investigatory, exclusionary or similar proceedings before the U.S. Food and Drug Administration ("FDA"); the Office of Inspector General, U.S. Department of Health and Human Services ("OIG"); the Centers for Medicare and Medicaid Services; U.S. Department of Health and Human Services; U.S. Department of Justice; U.S. Drug Enforcement Agency; or any similar federal, state, local or foreign governmental agency or body having authority over the activities of the Company or any of its subsidiaries (each a "Governmental Authority") known to the Company, which would reasonably be expected to result in a Material Adverse Effect.

(46) Regulatory Authorities. Except as described in the Registration Statement, the General Disclosure Package and the Prospectus, the Company and its subsidiaries: (i) have not, either voluntarily or involuntarily, disclosed to any Governmental Authority any violations of applicable laws, including any Health Care Laws (as defined in Section 1(a)(48)); (ii) have not received any FDA Form 483 or any foreign counterpart thereof, notice of adverse finding, warning letter, clinical hold notice, untitled letter or other correspondence or notice from the FDA, any Institutional Review Board (as defined by federal regulation at 21 CFR Section 56.102(g)) or any other Governmental Authority alleging or asserting noncompliance with any applicable laws, including Health Care Laws, or any licenses, certificates, approvals, clearances, authorizations, exemptions, registrations, permits, franchises, privileges, variances, immunities, and supplements or amendments thereto required by any such applicable laws, including Health Care Laws (collectively, "Authorizations"), except as would not, individually or in the aggregate, result in a Material Adverse Effect; (iii) possess all Authorizations (including, without limitation, exemptions under any Investigational New Drug Application, as described at 21 CFR Part 312, and approvals of any Institutional Review Board) required for the conduct of their respective businesses (and such Authorizations are valid and in full force and effect) and are not in violation of any term of any such Authorizations, except where the failure to possess such Authorization or the violation of such Authorization would not, individually or in the aggregate, result in a

Material Adverse Effect; (iv) have not, and entities conducting clinical testing on behalf of the Company or any of its subsidiaries have not, received notice of any pending or threatened claim, suit, proceeding, clinical hold, hearing, enforcement, audit, investigation, arbitration or other action from any Governmental Authority, Institutional Review Board or other non-governmental authority alleging that any of their respective operations or activities is in violation of any applicable laws, including Health Care Laws, or Authorizations, and the Company has no knowledge or reason to believe that any such Governmental Authority, Institutional Review Board or other non-governmental authority is considering any such claim, suit, proceeding, clinical hold, hearing, enforcement, audit, investigation, arbitration or other action, except as would not, individually or in the aggregate, result in a Material Adverse Effect; (v) have not received notice that any Governmental Authority, Institutional Review Board or other non-governmental authority has taken, is taking or intends to take action to limit, suspend, modify or revoke any Authorizations and the Company has no knowledge or reason to believe that any such Governmental Authority is considering such action, except for any such actions that would not, individually or in the aggregate, result in a Material Adverse Effect; and (vi) have, or have had on their behalf, filed, declared, obtained, maintained or submitted all reports, documents, forms, notices, applications, records, claims, submissions, registrations and supplements or amendments as are required by any applicable laws, including Health Care Laws, or Authorizations, except where the failure to so file, declare, obtain, maintain or submit would not, individually or in the aggregate, result in a Material Adverse Effect, and all such reports, documents, forms, notices, applications, records, claims, submissions, registrations and supplements or amendments were materially complete and correct on the date filed (or were corrected or supplemented by a subsequent submission).

(47) The clinical trials conducted by or on behalf of the Company or any of its subsidiaries were and, if still pending, are being conducted in compliance in all material respects with experimental protocols, procedures and controls pursuant to accepted professional scientific standards and all applicable federal, state, local and foreign laws, rules and regulations, including, but not limited to, the Federal Food, Drug, and Cosmetic Act and implementing regulations at 21 C.F.R. Parts 50, 54, 56, 58 and 312. Any descriptions of studies, tests and preclinical and clinical trials, including any related results and regulatory status, contained in the Registration Statement, the General Disclosure Package or the Prospectus are accurate and complete in all material respects. The Company is not aware of any studies, tests or trials the results of which reasonably call into question in any material respect the clinical trial results described or referred to in the Registration Statement, the General Disclosure Package or the Prospectus. Neither the Company nor any of its subsidiaries has received any notices, correspondence or other communication from the FDA, an Institutional Review Board, or other governmental agency or non-governmental authority requiring or recommending the termination, suspension or material modification of any clinical trials conducted by, or on behalf of, the Company or any of its subsidiaries or in which the Company or any of its subsidiaries has participated.

(48) Compliance with Health Care Laws. Neither the Company nor any of its subsidiaries, nor any of their respective employees, officers, directors, agents and

contractors, nor, to the knowledge of the Company, any of their respective licensees (if any), nor any of their respective business operations, is in violation of any applicable laws, including Health Care Laws, except where the failure to be in compliance would not, individually or in the aggregate, result in a Material Adverse Effect. For purposes of this Agreement, "Health Care Laws" means: (i) the Federal Food, Drug, and Cosmetic Act and the regulations promulgated thereunder; (ii) all federal, state, local and all 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 U.S. Civil False Claims Act (31 U.S.C. Section 3729 et seq.), Sections 1320a-7 and 1320a-7a of Title 42 of the United States Code and the regulations promulgated pursuant to such statutes; (iii) any 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"); (iv) the Standards for Privacy of Individually Identifiable Health Information (the "Privacy Rule"), the Security Standards, the Standards for Electronic Transactions and Code Sets promulgated under HIPAA (42 U.S.C. Section 1320d et seq.), 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 state or non-U.S. counterpart thereof or other law or regulation the purpose of which is to protect the privacy of individuals or prescribers; (v) the U.S. Controlled Substances Act; (vi) quality, safety and accreditation standards and requirements of any applicable federal, state, local or foreign laws or regulatory bodies; and (vii) any and all other laws, regulations, ordinances, opinions, orders, decrees, manual provisions, policies and administrative guidance in any jurisdiction applicable to the ownership, testing, in humans or laboratory models, development, manufacture, formulation, packaging, processing, recordkeeping, use, distribution, marketing, labeling, advertising, promotion, sale, offer for sale, price reporting, reimbursement, storage, import, export or disposal of any product manufactured, tested, or distributed by or on behalf of the Company or any of its subsidiaries, as well as contractual agreements mandated by such laws, regulations, ordinances, opinions, orders, decrees, manual provisions, policies and administrative guidance. Additionally, neither the Company nor any of its subsidiaries, nor any of their respective employees, officers, directors, agents or contractors has been excluded, suspended or debarred from participation in any federal health care program or is subject to an inquiry, investigation, proceeding, or other similar matter that could subject the Company, any of its subsidiaries, or any of their respective employees, officers, directors, agents or contractors to exclusion, suspension or debarment.

(b) Certificates. Any certificate signed by any officer of the Company or any of its subsidiaries (whether signed on behalf of such officer, the Company or such subsidiary) and delivered to the Representatives or to counsel for the Underwriters shall be deemed a representation and warranty by the Company to each Underwriter as to the matters covered thereby.

SECTION 2. Sale and Delivery to Underwriters; Closing.

(a) Initial Securities. On the basis of the representations and warranties herein contained and subject to the terms and conditions herein set forth, the Company agrees to sell to

the Underwriters, severally and not jointly, the Initial Securities, and each Underwriter, severally and not jointly, agrees to purchase the respective number of Initial Securities set forth opposite its name in Exhibit A hereto plus any additional number of Initial Securities which such Underwriter may become obligated to purchase pursuant to the provisions of Section 10 hereof, subject to such adjustments among the Underwriters as the Representatives in their sole discretion shall make to eliminate any sales or purchases of fractional Securities, in each case at a price of \$4.136 per share (the "Purchase Price").

(b) Option Securities. In addition, on the basis of the representations and warranties herein contained and subject to the terms and conditions herein set forth, the Company hereby grants an option to the Underwriters, severally and not jointly, to purchase up to 600,000 Option Securities at a price per share equal to the Purchase Price referred to in Section 2(a) above; provided that the price per share for any Option Securities shall be reduced by an amount per share equal to any dividends or distributions declared, paid or payable by the Company on the Initial Securities but not payable on such Option Securities. The option hereby granted will expire at 11:59 P.M. (New York City time) on the 30th day after the date hereof and may be exercised in whole or in part from time to time only for the purpose of covering over-allotments which may be made in connection with the offering and distribution of the Initial Securities upon notice by the Representatives to the Company setting forth the number of Option Securities as to which the several Underwriters are then exercising the option and the time and date of payment and delivery for such Option Securities. Any such time and date of delivery (an "Option Closing Date") shall be determined by the Representatives, but shall not be later than seven full business days after the exercise of said option (unless postponed in accordance with the provisions of Section 10), nor in any event prior to the Closing Date. If the option is exercised as to all or any portion of the Option Securities, the Company will sell to the Underwriters the number of Option Securities then being purchased, and each of the Underwriters, acting severally and not jointly, will purchase that proportion of the total number of Option Securities then being purchased which the number of Initial Securities set forth in Exhibit A opposite the name of such Underwriter, plus any additional number of Initial Securities which such Underwriter may become obligated to purchase pursuant to the provisions of Section 10 hereof, bears to the total number of Initial Securities, subject in each case to such adjustments as the Representatives in their discretion shall make to eliminate any sales or purchases of fractional shares.

(c) Payment. Payment of the purchase price for, and delivery of, the Initial Securities shall be made at the offices of Latham & Watkins, LLP, 12636 High Bluff Drive, Suite 400, San Diego, California 92130, or at such other place as shall be agreed upon by the Representatives and the Company, at 9:00 A.M. (New York City time) on August 6, 2013 (unless postponed in accordance with the provisions of Section 10), or such other time not later than five business days after such date as shall be agreed upon by the Representatives and the Company (such time and date of payment and delivery being herein called "Closing Date").

In addition, in the event that any or all of the Option Securities are purchased by the Underwriters, payment of the purchase price for, and delivery of, such Option Securities shall be made at 9:00 A.M. (New York City time) at the above-mentioned offices, or at such other place as shall be agreed upon by the Representatives and the Company, on each Option Closing Date as specified in the notice from the Representatives to the Company.

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

(d) Delivery of Securities. Delivery of the Initial Securities and any Option Securities shall be made through the facilities of DTC unless the Representatives shall otherwise instruct.

SECTION 3. Covenants of the Company. The Company covenants with each Underwriter as follows:

(a) Compliance with Securities Regulations and Commission Requests. The Company, subject to Section 3(b) hereof, will comply with the requirements of Rule 430B and Rule 433 and will notify the Representatives immediately, and confirm the notice in writing, (i) when any Rule 462(b) Registration Statement or any post-effective amendment to the Registration Statement shall be declared or become effective, or when any preliminary prospectus, the Prospectus or any Issuer Free Writing Prospectus or any amendment or supplement to any of the foregoing shall have been filed, (ii) of the receipt of any comments from the Commission (and shall promptly furnish the Representatives with a copy of any comment letters and any transcript of oral comments, and shall furnish the Representatives with copies of any written responses thereto a reasonable amount of time prior to the proposed filing thereof with the Commission, and will not file or use any such response to which the Representatives or counsel for the Underwriters shall reasonably object), (iii) of any request by the Commission for any amendment to the Registration Statement or any amendment or supplement to any preliminary prospectus or the Prospectus, any document incorporated or deemed to be incorporated by reference therein or any Issuer Free Writing Prospectus or for additional information, (iv) of the issuance by the Commission of any stop order suspending the effectiveness of the Registration Statement or of any order preventing or suspending the use of any preliminary prospectus, the Prospectus or any Issuer Free Writing Prospectus or any amendment or supplement to any of the foregoing, or of the suspension of the qualification of the Securities for offering or sale in any jurisdiction or of the loss or suspension of any exemption from any such qualification, or of the initiation or threatening of any proceedings for any of such purposes, or of any examination pursuant to Section 8(e) of the 1933 Act concerning the Registration Statement and (v) if the Company becomes the subject of a proceeding under Section 8A of the 1933 Act in connection with the offering of the Securities. The Company will make every reasonable effort to prevent the issuance of any stop order and the suspension or loss of any qualification of the Securities for offering or sale and any loss or

suspension of any exemption from any such qualification, and if any such stop order is issued, or any such suspension or loss occurs, to obtain the lifting thereof at the earliest possible moment.

(b) Filing of Amendments. The Company will give the Representatives notice of its intention to file or prepare any amendment to the Registration Statement, any Rule 462(b) Registration Statement, any Issuer Free Writing Prospectus or any amendment, supplement or revision to any preliminary prospectus, the Prospectus or any Issuer Free Writing Prospectus, whether pursuant to the 1933 Act or otherwise, and the Company will furnish the Representatives with copies of any such documents within a reasonable amount of time prior to such proposed filing or use, as the case may be, and will not file or use any such document to which the Representatives or counsel for the Underwriters shall reasonably object. The Company has given the Representatives notice of any filings made pursuant to the 1934 Act or the 1934 Act Regulations within 48 hours prior to the Applicable Time. The Company will give the Representatives notice of its intention to make any filing pursuant to the 1934 Act or the 1934 Act Regulations from the Applicable Time through the Closing Time (or, if later, through the end of the period during which the Prospectus is required (or, but for the provisions of Rule 172, would be required) to be delivered by applicable law (whether to meet the requests of purchasers pursuant to Rule 173(d) or otherwise)) and will furnish the Representatives with copies of any such documents a reasonable amount of time prior to such proposed filing, as the case may be, and will not file or use any such document to which the Representatives or counsel for the Underwriters shall reasonably object.

(c) Delivery of Registration Statements. The Company has furnished or will deliver to the Representatives and counsel for the Underwriters, without charge, copies of the Initial Registration Statement and any Rule 462(b) Registration Statement and of each amendment thereto (including exhibits filed therewith or incorporated by reference therein and documents incorporated or deemed to be incorporated by reference therein or otherwise deemed to be a part thereof) and copies of all consents and certificates of experts.

(d) Delivery of Prospectuses. The Company has delivered to each Underwriter, without charge, as many copies of each preliminary prospectus and any amendments or supplements thereto as such Underwriter reasonably requested, and the Company hereby consents to the use of such copies for purposes permitted by the 1933 Act and other applicable securities laws. The Company will furnish to each Underwriter, without charge, during the period when the Prospectus is required (or, but for the provisions of Rule 172, would be required) to be delivered by applicable law (whether to meet the request of purchasers pursuant to Rule 173(d) or otherwise), such number of copies of the Pre-Pricing Prospectus, the Prospectus and any Issuer Free Writing Prospectus and any amendments or supplements to any of the foregoing as such Underwriter may reasonably request.

(e) Continued Compliance with Securities Laws. The Company will comply with the 1933 Act, the 1933 Act Regulations, the 1934 Act and the 1934 Act Regulations so as to permit the completion of the distribution of the Securities as contemplated by this

Agreement, the General Disclosure Package and the Prospectus. If at any time when a prospectus is required (or, but for the provisions of Rule 172, would be required) by the applicable law to be delivered in connection with sales of the Securities (whether to meet the request of purchasers pursuant to Rule 173(d) or otherwise), any event shall occur or condition shall exist as a result of which it is necessary (or if the Representatives or counsel for the Underwriters shall notify the Company that, in their judgment, it is necessary) to amend the Registration Statement or amend or supplement the General Disclosure Package or the Prospectus so that the Registration Statement, the General Disclosure Package or the Prospectus, as the case may be, will not include any untrue statement of a material fact or omit to state a material fact necessary in order to make the statements therein, in the light of the circumstances under which they were made or then prevailing, not misleading or if it is necessary (or, if the Representatives or counsel for the Underwriters shall notify the Company that, in their judgment, it is necessary) to amend the Registration Statement or amend or supplement the General Disclosure Package or the Prospectus in order to comply with the requirements of the 1933 Act, the 1933 Act Regulations, the 1934 Act or the 1934 Act Regulations, the Company will promptly notify the Representatives of such event or condition and of its intention to file such amendment or supplement (or, if the Representatives or counsel for the Underwriters shall have notified the Company as aforesaid, the Company will promptly notify the Representatives of its intention to prepare such amendment or supplement) and will promptly prepare and file with the Commission, subject to Section 3(b) hereof, such amendment or supplement as may be necessary to correct such untrue statement or omission or to comply with such requirements, and, in the case of an amendment or post-effective amendment to the Registration Statement, the Company will use its best efforts to have such amendment declared or become effective as soon as practicable, and the Company will furnish to the Underwriters such number of copies of such amendment or supplement as the Underwriters may reasonably request. If at any time an Issuer Free Writing Prospectus conflicts with the information contained in the Registration Statement or if an event shall occur or condition shall exist as a result of which it is necessary (or, if the Representatives or counsel for the Underwriters shall notify the Company that, in their judgment, it is necessary) to amend or supplement such Issuer Free Writing Prospectus so that it will not include 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 or then prevailing, not misleading, or if it is necessary (or, if the Representatives or counsel for the Underwriters shall notify the Company that, in their judgment, it is necessary) to amend or supplement such Issuer Free Writing Prospectus in order to comply with the requirements of the 1933 Act or the 1933 Act Regulations, the Company will promptly notify the Representatives of such event or condition and of its intention to file such amendment or supplement (or, if the Representatives or counsel for the Underwriters shall have notified the Company as aforesaid, the Company will promptly notify the Representatives of its intention to prepare such amendment or supplement) and will promptly prepare and, if required by the 1933 Act or the 1933 Act Regulations, file with the Commission, subject to Section 3(b) hereof, such amendment or supplement as may be necessary to eliminate or correct such conflict, untrue statement or omission or to comply with such requirements,

and the Company will furnish to the Underwriters such number of copies of such amendment or supplement as the Underwriters may reasonably request.

(f) Blue Sky and Other Qualifications. The Company will use its best efforts, in cooperation with the Underwriters, to qualify the Securities for offering and sale, or to obtain an exemption for the Securities to be offered and sold, under the applicable securities laws of such states and other jurisdictions (domestic or foreign) as the Representatives may designate and to maintain such qualifications and exemptions in effect for so long as required for the distribution of the Securities (but in no event for a period of not less than one year from the date of this Agreement); provided, however, that the Company shall not be obligated to file any general consent to service of process or to qualify as a foreign corporation or as a dealer in securities in any jurisdiction in which it is not so qualified or to subject itself to taxation in respect of doing business in any jurisdiction in which it is not otherwise so subject. In each jurisdiction in which the Securities have been so qualified or exempt, the Company will file such statements and reports as may be required by the laws of such jurisdiction to continue such qualification or exemption, as the case may be, in effect for so long as required for the distribution of the Securities (but in no event for a period of not less than one year from the date of this Agreement).

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

(h) Use of Proceeds. The Company will use the net proceeds received by it from the sale of the Securities in the manner specified in the Pre-Pricing Prospectus and the Prospectus under "Use of Proceeds."

(i) Listing. In the case of any Securities that are not listed on the Nasdaq Global Select Market, the Company will use its best efforts to effect the listing of the Securities on such exchange as and when required by this Agreement.

(j) Restriction on Sale of Securities. During the Lock-Up Period (as the same may be extended pursuant to the provisions set forth in the next sentence), the Company will not, without the prior written consent of Wells Fargo and JMP, directly or indirectly:

(i) issue, offer, pledge, sell, contract to sell, sell any option or contract to purchase, purchase any option or contract to sell, grant any option, right or warrant to purchase, lend or otherwise transfer or dispose of any shares of Common Stock or other capital stock or any securities convertible into or exercisable or exchangeable for Common Stock or other capital stock,

(ii) file or cause the filing of any registration statement under the 1933 Act with respect to any Common Stock or other capital stock or any securities convertible into or exercisable or exchangeable for any Common Stock or other

capital stock (other than any Rule 462(b) Registration Statement filed to register Securities to be sold to the Underwriters pursuant to this Agreement), or

(iii) enter into any swap or other agreement, arrangement, hedge or transaction that transfers to another, in whole or in part, directly or indirectly, any of the economic consequences of ownership of any Common Stock or other capital stock or any securities convertible into or exercisable or exchangeable for any Common Stock or other capital stock,

whether any transaction described in clause (i) or (iii) above is to be settled by delivery of Common Stock, other capital stock, other securities, in cash or otherwise, or publicly announce any intention to do any of the foregoing. Moreover, if:

(1) during the last 17 days of the Lock-Up Period the Company issues an earnings release or material news or a material event relating to the Company occurs, or

(2) prior to the expiration of the Lock-Up Period, the Company announces that it will release earnings results or becomes aware that material news or a material event relating to the Company will occur during the 16-day period beginning on the last day of the Lock-Up Period,

the Lock-Up Period shall be extended and the restrictions imposed by this Section 3(j) shall continue to apply until the expiration of the 18-day period beginning on the date of issuance of the earnings release or the occurrence of the material news or material event, as the case may be, unless Wells Fargo and JMP waive, in writing, such extension. In the event of any extension of the Lock-Up Period pursuant to the immediately preceding sentence, the Company shall notify the Representatives, and each person listed in Exhibit C hereto of such extension as promptly as practicable and in any event prior to the last day of the Lock-Up Period prior to giving effect to such extension.

Notwithstanding the provisions set forth in the immediately preceding paragraph, the Company may, without the prior written consent of Wells Fargo and JMP:

(1) issue Securities to the Underwriters pursuant to this Agreement,

(2) issue shares, and options to purchase shares, of Common Stock pursuant to stock option plans, stock purchase or other equity incentive plans described in the General Disclosure Package and the Prospectus, as those plans are in effect on the date of this Agreement, and

(3) issue shares of Common Stock upon the exercise of stock options issued under stock option or other equity incentive plans referred to in clause (2) above, as those plans are in effect on the date of this Agreement, or upon the exercise of warrants or convertible securities outstanding on the date of this Agreement, as those warrants and convertible securities are in effect on the date of this Agreement.

(k) Reporting Requirements. The Company, during the period when the Prospectus is required (or, but for the provisions of Rule 172, would be required) by applicable law to be delivered (whether to meet the request of purchasers pursuant to Rule 173(d) or otherwise), will file all documents required to be filed with the Commission pursuant to the 1934 Act and the 1934 Act Regulations within the time periods required by the 1934 Act and the 1934 Act Regulations.

(l) Preparation of Prospectus. Immediately following the execution of this Agreement, the Company will, subject to Section 3(b) hereof, prepare the Prospectus, which shall contain the selling terms of the Securities, the plan of distribution thereof and such other information as may be required by the 1933 Act or the 1933 Act Regulations or as the Representatives and the Company may deem appropriate, and if requested by the Representatives, will prepare an Issuer Free Writing Prospectus containing the information set forth in Exhibit E hereto and such other information as may be required by Rule 433 or as the Representatives and the Company may deem appropriate, and will file or transmit for filing with the Commission the Prospectus in accordance with the provisions of Rule 430B and in the manner and within the time period required by Rule 424(b) (without reliance on Rule 424(b)(8)) and any such Issuer Free Writing Prospectus in the manner and within the time period required by Rule 433.

(m) New Registration Statement. If, immediately prior to the third anniversary of the initial effective date of the Registration Statement (the “Renewal Deadline”), any of the Securities remains unsold by the Underwriters, the Company will, prior to the Renewal Deadline, if it has not already done so, file a new registration statement relating to the Securities, and notify the Representatives when such filing has been made and use its best efforts to cause such registration statement to be declared effective within 180 days after the Renewal Deadline. The Company will furnish the Representatives with copies of any such new registration statement a reasonable amount of time prior to such proposed filing and, notwithstanding the foregoing provisions of this paragraph, will not file any such proposed registration statement to which the Representatives or counsel for the Underwriters shall reasonably object. In any such case, the Company will take all other action as is necessary or appropriate to permit the public offering and sale of the Securities to continue from and after the Renewal Deadline as contemplated in the expired registration statement relating to the Securities. References in this Agreement to the “Registration Statement” shall include any such new shelf registration statement from and after the time it is filed with the Commission, mutatis mutandis.

SECTION 4. Payment of Expenses.

(a) Expenses. The Company will pay all expenses incident to the performance of its obligations under this Agreement, including (i) the preparation, printing and filing of the Registration Statement and each amendment thereto (in each case including exhibits) and any costs associated with electronic delivery of any of the foregoing, (ii) the word processing and delivery to the Underwriters of this Agreement and such other documents as may be required in connection with the offering, purchase, sale, issuance or delivery of the Securities, (iii) the preparation, issuance and delivery of the certificates for the Securities and the issuance and delivery of the Securities to the Underwriters, including any stock or other transfer taxes and any

stamp or other taxes or duties payable in connection with the sale, issuance or delivery of the Securities to the Underwriters, (iv) the fees and disbursements of the counsel, accountants and other advisors to the Company, (v) the qualification or exemption of the Securities under securities laws in accordance with the provisions of Section 3(f) hereof, including filing fees and the reasonable fees and disbursements of counsel for the Underwriters in connection therewith and in connection with the preparation of the Blue Sky Survey and any supplements thereto and the reasonable fees and disbursements of special Canadian counsel for the Underwriters in connection with the preparation of any Canadian “wrapper;” provided such fees and disbursements do not exceed \$10,000 in the aggregate, (vi) the preparation, printing and delivery to the Underwriters of copies of each preliminary prospectus, any Permitted Free Writing Prospectus and the Prospectus and any amendments or supplements to any of the foregoing and any costs associated with electronic delivery of any of the foregoing, (vii) the preparation, printing and delivery to the Underwriters of copies of the Blue Sky Survey and any Canadian “wrapper” and any supplements thereto and any costs associated with electronic delivery of any of the foregoing (for the sake of clarity, this does not include the reasonable fees and disbursements of special Canadian counsel referenced in subsection (v) above), (viii) the fees and expenses of the transfer agent and registrar for the Securities, (ix) the filing fees incident to, and the reasonable fees and disbursements of counsel to the Underwriters in connection with, the review, if any, by FINRA of the terms of the sale of the Securities, (x) the fees and expenses incurred in connection with the listing of the Securities on the Nasdaq Global Select Market, (xi) the costs and expenses of the Company and any of its officers, directors, counsel or other representatives in connection with presentations or meetings undertaken in connection with the offering of the Securities, including, without limitation, expenses associated with the production of road show slides and graphics and the production and hosting of any electronic road shows, fees and expenses of any consultants engaged in connection with road show presentations, and travel, lodging, transportation, and other expenses of the officers, directors, counsel and other representatives of the Company incurred in connection with any such presentations or meetings, and (xii) the reasonable fees and disbursements of counsel for the Underwriters in connection with the copying and delivery of closing documents and other documents relating to the offering contemplated hereby (and in connection with the preparation and delivery of any electronic versions or compilations of such documents) to the Company, the Company’s accountants and counsel and the Underwriters.

(b) Termination of Agreement. If this Agreement is terminated by the Representatives in accordance with the provisions of Section 5, Section 9(a)(i) or Section 9(a)(iii)(A) hereof, the Company shall reimburse the Underwriters for all of their out-of-pocket expenses, including the reasonable fees and disbursements of counsel for the Underwriters.

SECTION 5. Conditions of Underwriters’ Obligations. The obligations of the several Underwriters hereunder are subject to the accuracy of the representations and warranties of the Company contained in this Agreement, or in certificates signed by any officer of the Company or any subsidiary of the Company (whether signed on behalf of such officer, the Company or such subsidiary) delivered to the Representatives or counsel for the Underwriters, to the performance by the Company of its covenants and other obligations hereunder, and to the following further conditions:

(a) Effectiveness of Registration Statement. The Initial Registration Statement and any post-effective amendments thereto and any Rule 462(b) Registration Statement, shall have become effective, been declared or become effective, as the case may be, and no stop order suspending the effectiveness of the Initial Registration Statement or any Rule 462(b) Registration Statement shall have been issued under the 1933 Act or proceedings therefor initiated or, to the knowledge of the Company, threatened by the Commission, and any request on the part of the Commission for additional information shall have been complied with to the reasonable satisfaction of the Representatives. The Prospectus shall have been filed with the Commission in the manner and within the time period required by Rule 424(b) (without reliance upon Rule 424(b)(8)) and each Issuer Free Writing Prospectus required to be filed with the Commission shall have been filed in the manner and within the time period required by Rule 433, and, prior to the Closing Date, the Company shall have provided evidence satisfactory to the Representatives of such timely filings.

(b) Opinion of Counsel for Company. At the Closing Date, the Representatives shall have received the favorable opinion and negative assurance letter, each dated as of Closing Date, of Gibson, Dunn & Crutcher LLP, counsel for the Company ("Company Counsel"), in form and substance satisfactory to the Representatives, together with signed or reproduced copies of such opinion and letter for each of the other Underwriters, and of Alane Barnes, the General Counsel of the Company, in form and substance satisfactory to the Representatives, together with signed or reproduced copies of such opinion for each of the other Underwriters.

(c) Opinion of Counsel for Underwriters. At the Closing Date, the Representatives shall have received the favorable opinion and negative assurance letter, each dated as of Closing Date, of Latham & Watkins LLP, counsel for the Underwriters ("Underwriters' Counsel"), together with signed or reproduced copies of such opinion and letter for each of the other Underwriters, with respect to the Securities to be sold by the Company pursuant to this Agreement, this Agreement, the Initial Registration Statement, any Rule 462(b) Registration Statement, the General Disclosure Package and the Prospectus and any amendments or supplements thereto and such other matters as the Representatives may reasonably request.

(d) Officers' Certificate. At the Closing Date or the applicable Option Closing Date, as the case may be, there shall not have been, since the date hereof or since the respective dates as of which information is given in the Registration Statement, the General Disclosure Package and the Prospectus (in each case exclusive of any amendments or supplements thereto subsequent to the date of this Agreement), any material adverse change or any development that could reasonably be expected to result in a material adverse change in the condition (financial or other), results of operations, business, properties, management or prospects of the Company and its subsidiaries taken as a whole, whether or not arising in the ordinary course of business, and, at the Closing Date, the Representatives shall have received a certificate, signed on behalf of the Company by the President or the Chief Executive Officer of the Company and the Chief Financial Officer or Chief Accounting Officer of the Company, dated as of Closing Date, to the effect that (i) there has been no such material adverse change, (ii) the

representations and warranties of the Company in this Agreement are true and correct at and as of the Closing Date with the same force and effect as though expressly made at and as of Closing Date, (iii) the Company has complied with all agreements and satisfied all conditions on its part to be performed or satisfied at or prior to the Closing Date under or pursuant to this Agreement, and (iv) no stop order suspending the effectiveness of the Registration Statement has been issued and no proceedings for that purpose have been instituted or are pending or, to the knowledge of the Company, are contemplated by the Commission.

(e) Chief Financial Officer's Certificate. At the time of the execution of this Agreement and at the Closing Date or the applicable Option Closing Date, as the case may be, the Representatives shall have received a certificate, addressed to the Representatives and dated as of such date, of the Chief Financial Officer of the Company, in form and substance satisfactory to the Representatives, substantially to the effect set forth in Exhibit G hereto.

(f) Accountant's Comfort Letter. At the time of the execution of this Agreement, the Representatives shall have received from Ernst & Young LLP a letter, dated the date of this Agreement and in form and substance satisfactory to the Representatives, together with signed or reproduced copies of such letter for each of the other Underwriters, containing statements and information of the type ordinarily included in accountants' "comfort letters" to underwriters with respect to the financial statements and certain financial information of the Company contained in the Registration Statement, the General Disclosure Package, any Issuer Free Writing Prospectuses (other than any electronic road show) and the Prospectus and any amendments or supplements to any of the foregoing.

(g) Bring-down Comfort Letter. At the Closing Date, the Representatives shall have received from Ernst & Young LLP a letter, dated as of Closing Date and in form and substance satisfactory to the Representatives, to the effect that they reaffirm the statements made in the letter furnished pursuant to subsection (f) of this Section, except that the specified date referred to shall be a date not more than three business days prior to the Closing Date.

(h) Approval of Listing. At Closing Date and each Option Closing Date, if any, the Securities to be purchased by the Underwriters from the Company at such time shall have been approved for listing on the Nasdaq Global Select Market, subject only to official notice of issuance.

(i) Lock-up Agreements. Prior to the date of this Agreement, the Representatives shall have received an agreement substantially in the form of Exhibit D hereto signed by each of the persons listed in Exhibit C hereto.

(j) Conditions to Purchase of Option Securities. In the event that the Underwriters exercise their option provided in Section 2(b) hereof to purchase all or any portion of the Option Securities on any Option Closing Date that is after the Closing Date, the obligations of the several Underwriters to purchase the applicable Option

Securities shall be subject to the conditions specified in the introductory paragraph of this Section 5 and to the further condition that, at the applicable Option Closing Date, the Representatives shall have received:

(1) Opinion of Counsel for Company. The favorable opinion and negative assurance letter of Company Counsel and favorable opinion of each other counsel named in Section 5(b), each in form and substance satisfactory to the Representatives, and otherwise to the same effect as the respective opinions required by Section 5(b) hereof and dated such Option Closing Date, relating to the Option Securities to be purchased on such Option Closing Date.

(2) Opinion of Counsel for Underwriters. The favorable opinion and negative assurance of Underwriters' Counsel, in form and substance satisfactory to the Representatives and dated such Option Closing Date, relating to the Option Securities to be purchased on such Option Closing Date and otherwise to the same effect as the opinion required by Section 5(c) hereof.

(3) Officers' Certificate. A certificate, dated such Option Closing Date, to the effect set forth in, and signed on behalf of the Company by the officers specified in, Section 5(d) hereof, except that the references in such certificate to the Closing Date shall be changed to refer to such Option Closing Date.

(4) Bring-down Comfort Letter. A letter from Ernst & Young LLP, in form and substance satisfactory to the Representatives and dated such Option Closing Date, substantially in the same form and substance as the letter furnished to the Representatives pursuant to Section 5(g) hereof, except that the "specified date" in the letter furnished pursuant to this paragraph shall be a date not more than three business days prior to such Option Closing Date, and except that such letter shall also cover any amendments or supplements to the Registration Statement, any Issuer Free Writing Prospectus (other than any electronic road show) and the Prospectus subsequent to the Closing Date.

(k) Additional Documents. At the Closing Date and each Option Closing Date, counsel for the Underwriters shall have been furnished with such documents and opinions as they may reasonably require for the purpose of enabling them to pass upon the issuance and sale of the Securities as herein contemplated, or in order to evidence the accuracy of any of the representations or warranties, or the fulfillment of any of the conditions, contained in this Agreement, or as the Representatives or counsel for the Underwriters may otherwise reasonably request; and all proceedings taken by the Company in connection with the issuance and sale of the Securities as herein contemplated and in connection with the other transactions contemplated by this Agreement shall be satisfactory in form and substance to the Representatives.

(l) Termination of Agreement. If any condition specified in this Section 5 shall not have been fulfilled when and as required to be fulfilled, this Agreement, or, in the case of any condition to the purchase of Option Securities on an Option Closing Date which is after the Closing Date, the obligations of the several Underwriters to purchase the relevant Option Securities on such Option Closing Date, may be terminated by the

Representatives by notice to the Company at any time on or prior to the Closing Date or such Option Closing Date, as the case may be, and such termination shall be without liability of any party to any other party except as provided in Section 4 hereof and except that Sections 1, 6, 7, 8, 11, 12, 13, 14, 15, 17, 18 and 19 hereof shall survive any such termination of this Agreement and remain in full force and effect.

SECTION 6. Indemnification.

(a) Indemnification by the Company. The Company agrees to indemnify and hold harmless each Underwriter, its affiliates, and its and their officers, directors, employees, partners and members and each person, if any, who controls any Underwriter within the meaning of Section 15 of the 1933 Act or Section 20 of the 1934 Act as follows:

(i) against any and all loss, liability, claim, damage and expense whatsoever, as incurred, arising out of any untrue statement or alleged untrue statement of a material fact contained in the Registration Statement (or any amendment thereto), or the omission or alleged omission therefrom of a material fact required to be stated therein or necessary to make the statements therein not misleading, or arising out of any untrue statement or alleged untrue statement of a material fact included in any preliminary prospectus, any Issuer Free Writing Prospectus, the General Disclosure Package or the Prospectus (or any amendment or supplement to any of the foregoing), or in any "issuer information" (as defined in Rule 433), or in any "road show" (as defined in Rule 433) that does not constitute an Issuer Free Writing Prospectus, or the omission or alleged omission therefrom of a material fact necessary in order to make the statements therein, in the light of the circumstances under which they were made, not misleading;

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

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

provided, however, that this indemnity agreement shall not apply to any loss, liability, claim, damage or expense to the extent arising out of any untrue statement or omission or alleged untrue statement or omission made in reliance upon and in conformity with written information furnished to the Company by any Underwriter through the Representatives expressly for use in the Registration Statement (or any amendment thereto), or in any preliminary prospectus, any Issuer Free Writing Prospectus, the General Disclosure Package or the Prospectus (or in any

amendment or supplement to any of the foregoing), it being understood and agreed that the only such information furnished by the Underwriters as aforesaid consists of the information described as such in Section 6(c) hereof.

(b) Indemnification by the Underwriters. Each Underwriter agrees, severally and not jointly, to indemnify and hold harmless the Company, its directors, each of its officers who signed the Registration Statement, and each person, if any, who controls the Company within the meaning of Section 15 of the 1933 Act or Section 20 of the 1934 Act against any and all loss, liability, claim, damage and expense described in the indemnity contained in Section 6(a) hereof, as incurred, but only with respect to untrue statements or omissions, or alleged untrue statements or omissions, made in the Registration Statement (or any amendment thereto), or in any preliminary prospectus, any Issuer Free Writing Prospectus, the General Disclosure Package or the Prospectus (or any amendment or supplement to any of the foregoing), in reliance upon and in conformity with written information furnished to the Company by such Underwriter through the Representatives expressly for use therein. The Company hereby acknowledges and agrees that the information furnished to the Company by the Underwriters through the Representatives expressly for use in the Registration Statement (or any amendment thereto), or in any preliminary prospectus, any Issuer Free Writing Prospectus, the General Disclosure Package or the Prospectus (or any amendment or supplement to any of the foregoing), consists exclusively of the following information appearing under the caption "Underwriting" in the Pre-Pricing Prospectus and the Prospectus: (i) the information regarding the concession and reallocation appearing in the 6th paragraph under such caption and (ii) the information regarding stabilization, syndicate covering transactions and penalty bids appearing in the 12th, 13th and 14th paragraphs under such caption (but only insofar as such information concerns the Underwriters).

(c) Actions Against Parties; Notification. Each indemnified party shall give notice as promptly as reasonably practicable to each indemnifying party of any action commenced against it in respect of which indemnity may be sought hereunder, but failure to so notify an indemnifying party shall not relieve such indemnifying party from any liability hereunder. Counsel to the indemnified parties shall be selected as follows: counsel to the Underwriters and the other indemnified parties referred to in Section 6(a) above shall be selected by Wells Fargo and JMP; and counsel to the Company, its directors, each of its officers who signed the Registration Statement and each person, if any, who controls the Company within the meaning of Section 15 of the 1933 Act or Section 20 of the 1934 Act shall be selected by the Company. An indemnifying party may participate at its own expense in the defense of any such action; provided, however, that counsel to the indemnifying party shall not (except with the consent of the indemnified party) also be counsel to the indemnified party. In no event shall the indemnifying party be liable for the fees and expenses of more than one counsel (in addition to any local counsel) separate from their own counsel for the Underwriters and the other indemnified parties referred to in Section 6(a) above; and the fees and expenses of more than one counsel (in addition to any local counsel) separate from their own counsel for the Company, its directors, each of its officers who signed the Registration Statement and each person, if any, who controls the Company within the meaning of Section 15 of the 1933 Act or Section 20 of the 1934 Act, in each case in connection with any one action or separate but similar or related actions in the same jurisdiction arising out of the same general allegations or circumstances. No indemnifying party shall, without the prior written consent of the indemnified parties, settle or

compromise or consent to the entry of any judgment with respect to any litigation, or any investigation or proceeding by any governmental agency or body, commenced or threatened, or any claim whatsoever in respect of which indemnification or contribution could be sought under this Section 6 or Section 7 hereof (whether or not the indemnified parties are actual or potential parties thereto), unless such settlement, compromise or consent (i) includes an unconditional release of each indemnified party from all liability arising out of such litigation, investigation, proceeding or claim and (ii) does not include a statement as to or an admission of fault, culpability or a failure to act by or on behalf of any indemnified party.

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

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

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

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

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

Notwithstanding the provisions of this Section 7, no Underwriter shall be required to contribute any amount in excess of the amount by which the total price at which the Securities underwritten by it and distributed to the public were offered to the public exceeds the amount of any damages which such Underwriter has otherwise been required to pay by reason of any 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.

For purposes of this Section 7, each affiliate of any Underwriter, each officer, director, employee, partner and member of any Underwriter or any such affiliate, and each person, if any, who controls any Underwriter within the meaning of Section 15 of the 1933 Act or Section 20 of the 1934 Act shall have the same rights to contribution as such Underwriter, and each director of the Company, each officer of the Company who signed the Registration Statement, and each person, if any, who controls the Company within the meaning of Section 15 of the 1933 Act or Section 20 of the 1934 Act shall have the same rights to contribution as the Company. The Underwriters' respective obligations to contribute pursuant to this Section 7 are several in proportion to the number of Initial Securities set forth opposite their respective names in Exhibit A hereto and not joint.

SECTION 8. Representations, Warranties and Agreements to Survive Delivery. All representations, warranties and agreements contained in this Agreement or in certificates signed by any officer of the Company or any of its subsidiaries (whether signed on behalf of such officer, the Company or such subsidiary) and delivered to the Representatives or counsel to the Underwriters, shall remain operative and in full force and effect, regardless of any investigation made by or on behalf of any Underwriter, any officer, director, employee, partner, member or agent of any Underwriter or any person controlling any Underwriter, or by or on behalf of the Company, any officer, director or employee of the Company or any person controlling the Company, and shall survive delivery of and payment for the Securities.

SECTION 9. Termination of Agreement.

(a) **Termination; General.** The Representatives may terminate this Agreement, by notice to the Company, at any time on or prior to the Closing Date (and, if any Option Securities are to be purchased on an Option Closing Date which occurs after the Closing Date, the

Representatives may terminate the obligations of the several Underwriters to purchase such Option Securities, by notice to the Company at any time on or prior to such Option Closing Date) (i) if there has been, at any time on or after the date of this Agreement or since the respective dates as of which information is given in the General Disclosure Package or the Prospectus (in each case exclusive of any amendments or supplements thereto subsequent to the date of this Agreement), any material adverse change or any development that could reasonably be expected to result in a material adverse change, in the condition (financial or other), results of operations, business, properties, management or prospects of the Company and its subsidiaries taken as a whole, whether or not arising in the ordinary course of business, or (ii) if there has occurred any material adverse change in the financial markets in the United States or the international financial markets, any declaration of a national emergency or war by the United States, 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 (including, without limitation, as a result of terrorist activities), in each case the effect of which is such as to make it, in the judgment of Wells Fargo or JMP, impracticable or inadvisable to market the Securities or to enforce contracts for the sale of the Securities, or (iii) if (A) trading in any securities of the Company has been suspended or materially limited by the Commission or the Nasdaq Global Select Market, or (B) trading generally on the New York Stock Exchange, the Nasdaq Global Select Market, the Nasdaq Global Market, the NYSE MKT, the Chicago Board of Options Exchange, the Chicago Mercantile Exchange or the Chicago Board of Trade has been suspended or limited, or minimum or maximum prices for trading have been fixed, or maximum ranges for prices have been required, by any of said exchanges or by order of the Commission, FINRA or any other governmental authority, or (C) a material disruption has occurred in commercial banking or securities settlement or clearance services in the United States or in Europe, or (iv) if a banking moratorium has been declared by either Federal or New York authorities.

(b) Liabilities. If this Agreement is terminated pursuant to this Section 9, such termination shall be without liability of any party to any other party except as provided in Section 4 hereof, and provided further that Sections 1, 6, 7, 8, 11, 12, 13, 14, 15, 17, 18 and 19 hereof shall survive such termination and remain in full force and effect.

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

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

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

No action taken pursuant to this Section 10 shall relieve any defaulting Underwriter from liability in respect of its default.

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

SECTION 11. Notices. All notices and other communications hereunder shall be in writing, shall be effective only upon receipt and shall be mailed, delivered by hand or overnight courier, or transmitted by fax (with the receipt of such fax to be confirmed by telephone). Notices to the Underwriters shall be directed to the Representatives at Wells Fargo Securities, LLC, 375 Park Avenue, New York, New York, 10152, Attention of Equity Syndicate, fax no. (212) 214-5918 (with such fax to be confirmed by telephone to (212) 214-6144), and JMP Securities LLC, 600 Montgomery Street, Suite 1100, San Francisco, CA 94111, Attention: General Counsel, fax no. (415) 835-8920 (with such fax to be confirmed by telephone to (415) 835-8971); and notices to the Company shall be directed to it at 4505 Emperor Blvd. Suite 200, Durham, NC 27703, Attention of Alane Barnes, fax no. (919) 856-1314 (with such fax to be confirmed by telephone to (919) 859-7930).

SECTION 12. Parties. This Agreement shall each inure to the benefit of and be binding upon the Underwriters and the Company and their respective successors. Nothing expressed or mentioned in this Agreement is intended or shall be construed to give any person, firm or corporation, other than the Underwriters and the Company and their respective successors and the controlling persons and other indemnified parties referred to in Sections 6 and 7 and their successors, heirs and legal representatives, any legal or equitable right, remedy or claim under or in respect of this Agreement or any provision herein contained. This Agreement and all conditions and provisions hereof are intended to be for the sole and exclusive benefit of the Underwriters and the Company and their respective successors, and said controlling persons and other indemnified parties and their successors, heirs and legal representatives, and for the benefit of no other person or entity. No purchaser of Securities from any Underwriter shall be deemed to be a successor by reason merely of such purchase.

SECTION 13. GOVERNING LAW AND TIME. THIS AGREEMENT SHALL BE GOVERNED BY AND CONSTRUED IN ACCORDANCE WITH THE LAWS OF THE

SECTION 14. Effect of Headings. The Section and Exhibit headings herein are for convenience only and shall not affect the construction hereof.

SECTION 15. Definitions. As used in this Agreement, the following terms have the respective meanings set forth below:

“Applicable Time” means 5:15 p.m. (New York City time) on July 31, 2013, or such other time as agreed by the Company and the Representatives.

“Commission” means the Securities and Exchange Commission.

“Company Documents” means (i) all Subject Instruments and (ii) all other contracts, indentures, mortgages, deeds of trust, loan or credit agreements, bonds, notes, debentures, evidences of indebtedness, swap agreements, hedging agreements, leases or other instruments or agreements to which the Company or any of its subsidiaries is a party or by which the Company or any of its subsidiaries is bound or to which any of the property or assets of the Company or any of its subsidiaries is subject.

“DTC” means The Depository Trust Company.

“EDGAR” means the Commission’s Electronic Data Gathering, Analysis and Retrieval System.

“ERISA” means the Employee Retirement Income Security Act of 1974, as amended, and the regulations and published interpretations thereunder.

“Existing Indenture” means the Indenture dated as of March 9, 2011 between JPR Royalty Sub LLC and U.S. Bank National Association as trustee, as amended or supplemented, if applicable, and including any debt securities, pledge agreements, security agreements, mortgages, guarantees or other instruments or agreements entered into by the Company or any of its subsidiaries in connection therewith or pursuant thereto, in each case as amended or supplemented, if applicable.

“FCPA” means the Foreign Corrupt Practices Act of 1977, as amended, and the rules and regulations thereunder.

“FINRA” means the Financial Industry Regulatory Authority Inc. or the National Association of Securities Dealers, Inc., or both, as the context shall require.

“GAAP” means United States generally accepted accounting principles.

“Initial Registration Statement” means the Company’s registration statement on Form S-3 (Registration No. 333-175182), as amended (if applicable), including the documents incorporated or deemed to be incorporated by reference therein pursuant to Item 12 of Form S-3 under the 1933 Act and the Rule 430B Information; provided that any Rule 430B Information

shall be deemed to be part of the Initial Registration Statement only from and after the time such information is deemed, pursuant to Rule 431B, to be part of the Initial Registration Statement.

“Issuer Free Writing Prospectus” means any “issuer free writing prospectus,” as defined in Rule 433, relating to the offering of the Securities that (i) is required to be filed with the Commission by the Company, (ii) is a “road show” that is a “written communication” within the meaning of Rule 433(d)(8)(i), whether or not required to be filed with the Commission, or (iii) is exempt from filing pursuant to Rule 433(d)(5)(i) because it contains a description of the Securities or of the offering that does not reflect the final terms, and all free writing prospectuses that are listed in Exhibit F hereto, in each case in the form filed or required to be filed with the Commission or, if not required to be filed, in the form retained or required to be retained in the Company’s records pursuant to Rule 433(g).

“Issuer General Use Free Writing Prospectus” means any Issuer Free Writing Prospectus that is intended for general distribution to prospective investors, as evidenced by its being specified in Exhibit F hereto.

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

“Lien” means any security interest, mortgage, pledge, lien, encumbrance, claim or equity.

“Lock-Up Period” means the period beginning on and including the date of this Agreement through and including the date that is the 90th day after the date of this Agreement, as the same may be extended as provided herein.

“OFAC” means the Office of Foreign Assets Control of the U.S. Treasury Department.

“Organizational Documents” means (a) in the case of a corporation, its charter and by-laws; (b) in the case of a limited liability company, its articles of organization, certificate of formation or similar organizational documents and its operating agreement, limited liability company agreement, membership agreement or other similar agreement; and (c) in the case of any other entity, the organizational and governing documents of such entity.

“PCAOB” means the Public Company Accounting Oversight Board (United States).

“Pre-Pricing Prospectus” means the preliminary prospectus dated July 30, 2013 relating to the Securities in the form first furnished to the Underwriters for use in connection with the offering of the Securities, including the documents incorporated by reference therein pursuant to Item 12 of Form S-3 under the 1933 Act.

“Preferred Stock” means the Company’s preferred stock, par value \$0.01 per share.

“preliminary prospectus” means any prospectus together with, if applicable, the accompanying prospectus supplement used in connection with the offering of the Securities that omitted the public offering price of the Securities or that was captioned “Subject to Completion,” together with the documents incorporated or deemed to be incorporated by reference therein

pursuant to Item 12 of Form S-3 under the 1933 Act. The term “preliminary prospectus” includes, without limitation, the Pre-Pricing Prospectus.

“Registration Statement” means the Initial Registration Statement; provided that, if a Rule 462(b) Registration Statement is filed with the Commission, then the term “Registration Statement” shall include such Rule 462(b) Registration Statement from and after the time of such filing, mutatis mutandis.

“Regulation S-T” means Regulation S-T of the Commission.

“Repayment Event” means any event or condition which, either immediately or with notice or passage of time or both, (i) gives the holder of any bond, note, debenture or other evidence of indebtedness (or any person acting on such holder’s behalf) the right to require the repurchase, redemption or repayment of all or a portion of such indebtedness by the Company or any subsidiary of the Company, or (ii) gives any counterparty (or any person acting on such counterparty’s behalf) under any swap agreement, hedging agreement or similar agreement or instrument to which the Company or any subsidiary of the Company is a party the right to liquidate or accelerate the payment obligations, or designate an early termination date under such agreement or instrument, as the case may be.

“Rule 163,” “Rule 164,” “Rule 172,” “Rule 173,” “Rule 401,” “Rule 405,” “Rule 424(b),” “Rule 430A,” “Rule 430C,” “Rule 433” and “Rule 462(b)” refer to such rules under the 1933 Act.

“Rule 430B Information” means the information included in any preliminary prospectus or the Prospectus or any amendment or supplement to any of the foregoing filed pursuant to Rule 424(b)(2), (b)(5) or (b)(7) that was omitted from the Initial Registration Statement at the time it first became effective but is deemed to be part of and included in the Initial Registration Statement pursuant to Rule 430B.

“Rule 462(b) Registration Statement” means a registration statement filed by the Company pursuant to Rule 462(b) for the purpose of registering any of the Securities under the 1933 Act, including the documents and other information incorporated or deemed to be incorporated by reference therein and the Rule 430A Information.

“Sarbanes-Oxley Act” means the Sarbanes-Oxley Act of 2002 and the rules and regulations promulgated thereunder or implementing the provisions thereof.

“Subject Instruments” means the Existing Indenture and all other instruments, agreements and documents filed or incorporated by reference as exhibits to the Registration Statement pursuant to Rule 601(b)(10) of Regulation S-K of the Commission; provided that if any instrument, agreement or other document filed or incorporated by reference as an exhibit to the Registration Statement as aforesaid has been redacted or if any portion thereof has been deleted or is otherwise not included as part of such exhibit (whether pursuant to a request for confidential treatment or otherwise), the term “Subject Instruments” shall nonetheless mean such instrument, agreement or other document, as the case may be, in its entirety, including any portions thereof which shall have been so redacted, deleted or otherwise not filed.

“Termination Event” means any event or condition which gives any person the right, either immediately or with notice or passage of time or both, to terminate or limit (in whole or in part) any Company Documents or any rights of the Company or any of its subsidiaries thereunder, including, without limitation, upon the occurrence of a change of control of the Company or other similar events.

“1933 Act” means the Securities Act of 1933, as amended.

“1933 Act Regulations” means the rules and regulations of the Commission under the 1933 Act.

“1934 Act” means the Securities Exchange Act of 1934, as amended.

“1934 Act Regulations” means the rules and regulations of the Commission under the 1934 Act.

“1940 Act” means the Investment Company Act of 1940, as amended.

All references in this Agreement to the Registration Statement, the Initial Registration Statement, any Rule 462(b) Registration Statement, any preliminary prospectus, the Prospectus, any Issuer Free Writing Prospectus or any amendment or supplement to any of the foregoing shall be deemed to include the version thereof filed with the Commission pursuant to EDGAR and all versions thereof delivered (physically or electronically) to the Representatives or the Underwriters.

All references in this Agreement to financial statements and schedules and other information which is “contained,” “included” or “stated” in the Registration Statement, Initial Registration Statement, any Rule 462(b) Registration Statement, any preliminary prospectus, the Pre-Pricing Prospectus or the Prospectus (and all other references of like import) shall be deemed to mean and include all such financial statements and schedules and other information which is incorporated by reference in or otherwise deemed by 1933 Act Regulations to be a part of or included in the Registration Statement, the Initial Registration Statement, any Rule 462(b) Registration Statement, any preliminary prospectus, the Pre-Pricing Prospectus or the Prospectus, as the case may be; and all references in this Agreement to amendments or supplements to the Initial Registration Statement, any preliminary prospectus, the Pre-Pricing Prospectus or the Prospectus shall be deemed to mean and include the filing of any document under the 1934 Act which is incorporated by reference in or otherwise deemed by 1933 Act Regulations to be a part of or included in the Registration Statement, the Initial Registration Statement, any Rule 462(b) Registration Statement, such preliminary prospectus or the Prospectus, as the case may be.

SECTION 16. Permitted Free Writing Prospectuses. The Company represents, warrants and agrees that it has not made and, unless it obtains the prior written consent of the Representatives, it will not make, any offer relating to the Securities that constitutes or would constitute an “issuer free writing prospectus” (as defined in Rule 433) or that otherwise constitutes or would constitute a “free writing prospectus” (as defined in Rule 405) or portion thereof required to be filed with the Commission or required to be retained by the Company pursuant to Rule 433; provided that the prior written consent of the Representatives shall be

deemed to have been given in respect of the Issuer General Use Free Writing Prospectuses, if any, listed on Exhibit F hereto and, to any electronic road show in the form previously provided by the Company to and approved by the Representatives. Any such free writing prospectus consented to or deemed to have been consented to as aforesaid is hereinafter referred to as a "Permitted Free Writing Prospectus." The Company represents, warrants and agrees that it has treated and will treat each Permitted Free Writing Prospectus as an "issuer free writing prospectus," as defined in Rule 433, and has complied and will comply with the requirements of Rule 433 applicable to any Permitted Free Writing Prospectus, including timely filing with the Commission where required, legending and record keeping. For the purposes of clarity, the parties hereto agree that all free writing prospectuses, if any, listed in Exhibit F hereto are Permitted Free Writing Prospectuses.

SECTION 17. Absence of Fiduciary Relationship. The Company acknowledges and agrees that:

(a) each of the Underwriters is acting solely as an underwriter in connection with the sale of the Securities and no fiduciary, advisory or agency relationship between the Company and any of the Underwriters has been created in respect of any of the transactions contemplated by this Agreement, irrespective of whether or not any of the Underwriters has advised or is advising the Company on other matters;

(b) the public offering price of the Securities and the price to be paid by the Underwriters for the Securities set forth in this Agreement were established by the Company following discussions and arms-length negotiations with the Representatives;

(c) it is capable of evaluating and understanding, and understands and accepts, the terms, risks and conditions of the transactions contemplated by this Agreement;

(d) it is aware that the Underwriters and their respective affiliates are engaged in a broad range of transactions which may involve interests that differ from those of the Company and that none of the Underwriters has any obligation to disclose such interests and transactions to the Company by virtue of any fiduciary, advisory or agency relationship or otherwise; and

(e) it waives, to the fullest extent permitted by law, any claims it may have against any of the Underwriters for breach of fiduciary duty or alleged breach of fiduciary duty and agrees that none of the Underwriters shall have any liability (whether direct or indirect, in contract, tort or otherwise) to it in respect of such a fiduciary duty claim or to any person asserting a fiduciary duty claim on its behalf or in right of it or the Company or any stockholders, employees or creditors of the Company.

SECTION 18. Research Analyst Independence. The Company acknowledges that the Underwriters' respective research analysts and research departments are required to be independent from their respective investment banking divisions and are subject to certain regulations and internal policies, and that such Underwriters' respective research analysts and research departments may hold views and make statements or investment recommendations and/or publish research reports with respect to the Company and/or the offering that differ from the views of their respective investment banking divisions. The Company hereby waives and

releases, to the fullest extent permitted by applicable law, any claims that the Company may have against the Underwriters with respect to any conflict of interest that may arise from the fact that the views expressed by their respective research analysts and research departments may be different from or inconsistent with the views or advice communicated to the Company by such Underwriters' respective investment banking divisions. The Company acknowledges that each of the Underwriters is a full-service securities firm and as such from time to time, subject to applicable securities laws, may effect transactions for its own account or the account of its customers and hold long or short positions in debt or equity securities of the Company and other entities that may be the subject of the transactions contemplated by this Agreement.

SECTION 19. Trial By Jury. The Company (on its own behalf and, to the extent permitted by applicable law, on behalf of its stockholders and affiliates) and each of the Underwriters hereby irrevocably waives, to the fullest extent permitted by applicable law, any and all right to trial by jury in any legal proceeding arising out of or relating to this Agreement or the transactions contemplated hereby.

[Signature Page Follows]

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 Underwriters and the Company in accordance with its terms.

Very truly yours,

BioCryst Pharmaceuticals, Inc.

By /s/ Thomas R. Staab II

Name: Thomas R. Staab II

Title: Senior Vice President, Chief Financial Officer and
Treasurer

CONFIRMED AND ACCEPTED, as of the date first above
written:

WELLS FARGO SECURITIES, LLC

By /s/ Elizabeth DiChiaro
Authorized Signatory

JMP SECURITIES LLC

By /s/ Gil Mogavero
Authorized Signatory

For themselves and as Representatives of the Underwriters named in Exhibit A hereto.

EXHIBIT A

<u>Name of Underwriter</u>	<u>Number of Initial Securities</u>
Wells Fargo Securities, LLC	2,000,000
JMP Securities LLC	1,600,000
Noble Financial Group, Inc.	400,000
Total	<u>4,000,000</u>

EXHIBIT B

SUBSIDIARIES OF THE COMPANY

<u>Name</u>	<u>Jurisdiction of Organization</u>	<u>Type of Entity</u>	<u>Names of General Partners/Managing Members</u>
JPR Royalty Sub LLC	Delaware	Limited Liability Company	BioCryst Pharmaceuticals, Inc.
BioCryst UK Limited	United Kingdom	Private company limited by shares	n/a

EXHIBIT C

LIST OF PERSONS SUBJECT TO LOCK-UP

George B. Abercrombie
Stanley C. Erck
Nancy Hutson, Ph.D.
Peder K. Jensen, M.D.
Kenneth B. Lee, Jr.
Charles A. Sanders, M.D.
Fred E. Cohen, M.D.
Jon P. Stonehouse
Thomas R. Staab, II
William P. Sheridan
Yarlagadda S. Babu, Ph.D.
Alane P. Barnes

EXHIBIT D

FORM OF LOCK-UP AGREEMENT

BioCryst Pharmaceuticals, Inc.

Public Offering of Common Stock

Dated as of July , 2013

Wells Fargo Securities, LLC
JMP Securities LLC
As Representatives of the several Underwriters
c/o Wells Fargo Securities, LLC
375 Park Avenue
New York, New York 10152

Ladies and Gentlemen:

This agreement is being delivered to you in connection with the proposed Underwriting Agreement (the "Underwriting Agreement") among BioCryst Pharmaceuticals, Inc., a Delaware corporation (the "Company"), and Wells Fargo Securities, LLC ("Wells Fargo") and JMP Securities LLC ("JMP"), as representatives of a group of underwriters (the "Underwriters") and the other parties thereto (if any), relating to a proposed underwritten public offering of common stock (the "Common Stock") of the Company.

In order to induce you and the other Underwriters to enter into the Underwriting Agreement, and in light of the benefits that the offering of the Common Stock will confer upon the undersigned in its capacity as a securityholder and/or an officer or director of the Company, and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the undersigned agrees with each Underwriter that, during the period beginning on and including the date of the Underwriting Agreement through and including the date that is the 90th day after the date of the Underwriting Agreement (such period, as the same may be extended as provided below, the "Lock-Up Period"), the undersigned will not, without the prior written consent of Wells Fargo and JMP, directly or indirectly:

(i) offer, pledge, sell, contract to sell, sell any option or contract to purchase, purchase any option or contract to sell, grant any option, right or warrant to purchase, lend or otherwise transfer or dispose of any shares of the Company's Common Stock or preferred stock or other capital stock (collectively, "capital stock") or any securities convertible into or exercisable or exchangeable for Common Stock or other capital stock,

whether now owned or hereafter acquired by the undersigned or with respect to which the undersigned has or hereafter acquires the power of disposition, or

(ii) enter into any swap or other agreement, arrangement or transaction that transfers to another, in whole or in part, directly or indirectly, any of the economic consequences of ownership of any Common Stock or other capital stock or any securities convertible into or exercisable or exchangeable for any Common Stock or other capital stock,

whether any transaction described in clause (i) or (ii) above is to be settled by delivery of Common Stock, other capital stock, other securities, in cash or otherwise, or publicly announce any intention to do any of the foregoing. Moreover, if:

- (1) during the last 17 days of the Lock-Up Period the Company issues an earnings release or material news or a material event relating to the Company occurs, or
- (2) prior to the expiration of the Lock-Up Period, the Company announces that it will release earnings results during the 16-day period beginning on the last day of the Lock-Up Period,

the Lock-Up Period shall be extended and the restrictions imposed by this agreement shall continue to apply until the expiration of the 18-day period beginning on the date of issuance of the earnings release or the occurrence of the material news or material event, as the case may be, unless Wells Fargo and JMP waive, in writing, such extension.

Notwithstanding the provisions set forth in the immediately preceding paragraph, the undersigned may, without the prior written consent of Wells Fargo and JMP, transfer any Common Stock or other capital stock or any securities convertible into or exchangeable or exercisable for Common Stock or other capital stock:

(1) if the undersigned is a natural person, as a bona fide gift or gifts or by will, by intestate succession or pursuant to a so-called "living trust" or other revocable trust established to provide for the disposition of property on the undersigned's death, in each case to any member of the immediate family (as defined below) of the undersigned or to a trust the beneficiaries of which are exclusively the undersigned or members of the undersigned's immediate family, or as a bona fide gift or gifts to a charity or educational institution, and

(2) if the undersigned is a partnership or a limited liability company, to a partner or member, as the case may be, of such partnership or limited liability company if, in any such case, such transfer is not for value,

provided, however, that in the case of any transfer described in clause (1) or (2) above, it shall be a condition to the transfer that (A) the transferee executes and delivers to Wells Fargo and JMP, acting on behalf of the Underwriters, not later than one business day prior to such transfer, a written agreement, in substantially the form of this agreement (it being understood that any references to "immediate family" in the agreement executed by such transferee shall expressly refer only to the immediate family of the undersigned and not to the immediate family of the

transferee) and otherwise satisfactory in form and substance to Wells Fargo and JMP, (B) in the case of a transfer pursuant to clause (1) above, if the undersigned is required to file a report under Section 16(a) of the Securities Exchange Act of 1934, as amended (the "1934 Act"), reporting a reduction in beneficial ownership of shares of Common Stock or other capital stock or any securities convertible into or exercisable or exchangeable for Common Stock or other capital stock by the undersigned during the Lock-Up Period (as the same may be extended as described above), the undersigned shall include a statement in such report to the effect that such transfer is not a transfer for value and that such transfer is being made as a gift, by will or intestate succession or pursuant to a so-called "living trust" or other revocable trust established to provide for the disposition of property on the undersigned's death, as the case may be, (C) in the case of a transfer pursuant to clause (2) above, no filing under Section 16(a) of the 1934 Act reporting a reduction in beneficial ownership of shares of Common Stock or other capital stock or any securities convertible into or exercisable or exchangeable for Common Stock or other capital stock shall be required to be made during the Lock-Up Period (as the same may be extended as described above) and (D) in the case of a transfer pursuant to clause (1) or (2) above, no voluntary filing with the Securities and Exchange Commission or other public report, filing or announcement shall be made in respect of such transfer during this Lock-Up Period (as the same may be extended as described above). For purposes of this paragraph, "immediate family" shall mean any relationship by blood, marriage or adoption not more remote than the first cousin.

Prior to engaging in any transaction or taking any other action that is subject to the restrictions imposed by this agreement at any time during the period from and including the date of this agreement through and including the 34th day following the last day of the Lock-Up Period (prior to giving effect to any extension of the Lock-Up Period as provided above), the undersigned will give notice thereof to the Company and will not consummate such transaction or take any such action unless it has received written confirmation from the Company that the Lock-Up Period (as the same may have been extended as provided above) has expired.

The undersigned further agrees that (i) it will not, during the Lock-Up Period (as the same may be extended as described above), make any demand for or exercise any right with respect to the registration under the Securities Act of 1933, as amended (the "1933 Act"), of any shares of Common Stock or other capital stock or any securities convertible into or exercisable or exchangeable for Common Stock or other capital stock, and (ii) the Company may, with respect to any Common Stock or other capital stock or any securities convertible into or exercisable or exchangeable for Common Stock or other capital stock owned or held (of record or beneficially) by the undersigned, cause the transfer agent or other registrar to enter stop transfer instructions and implement stop transfer procedures with respect to such securities during the Lock-Up Period (as the same may be extended as described above).

The undersigned hereby waives any and all notice requirements and rights with respect to the registration of any securities pursuant to any agreement, instrument, understanding or otherwise, including any registration rights agreement or similar agreement, to which the undersigned is a party or under which the undersigned is entitled to any right or benefit and any tag-along rights, co-sale rights or other rights to have any securities (debt or equity) included in the offering contemplated by this agreement or sold in connection with the sale of Securities pursuant to the Underwriting Agreement, provided that such waiver shall apply only to the

public offering of Common Stock pursuant to the Underwriting Agreement and each registration statement filed under the 1933 Act in connection therewith.

The undersigned hereby represents and warrants that the undersigned has full power and authority to enter into this agreement and that this agreement has been duly authorized (if applicable), executed and delivered by the undersigned and is a valid and binding agreement of the undersigned. This agreement and all authority herein conferred are irrevocable and shall survive the death or incapacity of the undersigned (if a natural person) and shall be binding upon the heirs, personal representatives, successors and assigns of the undersigned.

If (i) the Company notifies Wells Fargo and JMP in writing that it does not intend to proceed with the offering of the Common Stock, or (ii) the Underwriting Agreement is not executed by the parties thereto prior to August 14, 2013, this agreement shall automatically terminate and become null and void.

The undersigned acknowledges and agrees that whether or not any public offering of Common Stock actually occurs depends on a number of factors, including market conditions.

THE AGREEMENT SHALL BE GOVERNED BY AND CONSTRUED IN ACCORDANCE WITH THE LAWS OF THE STATE OF NEW YORK.

[Signature Page Immediately Follows]

IN WITNESS WHEREOF, the undersigned has executed and delivered this agreement as of the date first set forth above.

Yours very truly,

Print Name:

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EXHIBIT E

PRICE-RELATED INFORMATION

Public offering price: \$4.40 per share

Net proceeds, before expenses, to the Company: \$4.136 per share

Settlement date: August 6, 2013

ISSUER GENERAL USE FREE WRITING PROSPECTUSES

None.

EXHIBIT G

FORM OF CERTIFICATE OF CHIEF FINANCIAL OFFICER

CHIEF FINANCIAL OFFICER'S CERTIFICATE

BIOCRYST PHARMACEUTICALS, INC.

July 31, 2013

In connection with the offering, sale and issuance by BioCryst Pharmaceuticals, Inc., a Delaware corporation (the "Company") of 4,600,000 shares of common stock (which includes 600,000 shares subject to an over-allotment option) of the Company (the "Offering"), pursuant to a registration statement on Form S-3 under the Securities Act of 1933 (File No. 333-175182) (as amended as of the date hereof, the "Registration Statement"), a preliminary prospectus dated July 30, 2013 (the "Preliminary Prospectus") a final prospectus dated July 31, 2013 (the "Final Prospectus") and an Underwriting Agreement, dated July 31, 2013 (the "Underwriting Agreement"), by and among the Company, and Wells Fargo Securities, LLC and JMP Securities LLC, as representatives (the "Representatives") of the Underwriters named in Exhibit A thereto, I, Thomas R. Staab, II, solely in my capacity as Chief Financial Officer of the Company, have been asked to deliver this certificate to the Representatives, on behalf of the Company. Based on my examination of the Company's financial records and schedules undertaken by myself or members of my staff who are responsible for the Company's financial accounting matters, I hereby certify, on behalf of the Company and solely in my capacity as Chief Financial Officer of the Company, that:

- (1) I have read the Registration Statement, the Preliminary Prospectus and the Final Prospectus, including the financial projections disclosed in the Preliminary Prospectus and the Final Prospectus under the caption "Prospectus Supplement Summary—Financial Outlook for the Remainder of 2013."
- (2) I or members of my staff who are responsible for the Company's financial and accounting matters supervised the compilation of the Company's financial projections specified in Annex I hereto and set forth in the Preliminary Prospectus and the Final Prospectus under the caption "Prospectus Supplement Summary—Financial Outlook for the Remainder of 2013" (together, the "Specified Financial Projections").
- (3) To the best of my knowledge, the financial information contained in the Specified Financial Projections is true, correct and accurate in all material respects. The Specified Financial Projections are preliminary and subject to adjustments that may arise as a result of the completion of customary quarterly closing and review procedures.

This Chief Financial Officer's Certificate is to assist the Representatives in conducting and documenting their investigation of the affairs of the Company in connection with the

Offering covered by the Preliminary Prospectus and the Final Prospectus, and the Representatives are entitled to rely on this Chief Financial Officer's Certificate.

[Signature page follows]

IN WITNESS WHEREOF, I have hereunto signed my name as of the date first above written.

BIOCRYST PHARMACEUTICALS, INC.

By: _____

Name: Thomas R. Staab, II

Title: Chief Financial Officer

G-3

August 5, 2013

BioCryst Pharmaceuticals, Inc.
4505 Emperor Blvd., Suite 200
Durham, North Carolina 27703

Re: *BioCryst Pharmaceuticals, Inc.*
Registration Statement on Form S-3 (File No. 175182)

Ladies and Gentlemen:

We have examined the Registration Statement on Form S-3, File No. 333-175182, as amended (the "Registration Statement") of BioCryst Pharmaceuticals, Inc., a Delaware corporation (the "Company"), filed with the Securities and Exchange Commission (the "Commission") pursuant to the Securities Act of 1933, as amended (the "Securities Act"), in connection with the offering by the Company of up to 4,600,000 shares of the Company's common stock, par value \$0.01 per share (the "Shares"). The Shares will be issued pursuant to the Underwriting Agreement, dated July 31, 2013 (the "Underwriting Agreement"), among the Company and the underwriters named therein.

In arriving at the opinion expressed below, we have examined originals, or copies certified or otherwise identified to our satisfaction as being true and complete copies of the originals, of specimen Common Stock certificates and such other documents, corporate records, certificates of officers of the Company and of public officials and other instruments as we have deemed necessary or advisable to enable us to render the opinions set forth below. In our examination, we have assumed without independent investigation the genuineness of all signatures, the legal capacity and competency of all natural persons, the authenticity of all documents submitted to us as originals and the conformity to original documents of all documents submitted to us as copies.

Based upon the foregoing, and subject to the assumptions, exceptions, qualifications and limitations set forth herein, we are of the opinion that the Shares, when issued against payment therefor as set forth in the Registration Statement, will be validly issued, fully paid and non-assessable.

We render no opinion herein as to matters involving the laws of any jurisdiction other than the Delaware General Corporation Law. This opinion is limited to the effect of the current state of the Delaware General Corporation Law and the facts as they presently exist. We

BioCryst Pharmaceuticals, Inc.

August 5, 2013

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assume no obligation to revise or supplement this opinion in the event of future changes in such law or the interpretations thereof or such facts.

We consent to the filing of this opinion as an exhibit to the Registration Statement, and we further consent to the use of our name under the caption "Legal Matters" in the Registration Statement and the prospectus that forms a part thereof. In giving this consent, we do not thereby admit that we are within the category of persons whose consent is required under Section 7 of the Securities Act or the Rules and Regulations of the Commission.

Very truly yours,

/s/ Gibson Dunn & Crutcher LLP



BIOCRYST PHARMACEUTICALS PRICES PUBLIC OFFERING OF COMMON STOCK

Research Triangle Park, North Carolina – July 31, 2013 – BioCryst Pharmaceuticals, Inc. (Nasdaq: BCRX) today announced the pricing of an underwritten public offering of 4,000,000 shares of its common stock, offered at a price to the public of \$4.40 per share. The gross proceeds from this offering to BioCryst are expected to be \$17.6 million, before deducting underwriting discounts and commissions and other estimated offering expenses payable by BioCryst. BioCryst has granted the underwriters a 30-day option to purchase up to an aggregate of 600,000 shares of common stock to cover over-allotments, if any. The offering is expected to close on or about August 6, 2013, subject to customary closing conditions. BioCryst expects to use net proceeds of this offering for general corporate purposes, including funding clinical development of BCX4161, continued development of second generation hereditary angioedema compounds and pre-commercialization activities related to intravenous peramivir.

Wells Fargo Securities, LLC and JMP Securities LLC are acting as joint book-running managers, with Noble Financial Capital Markets acting as co-manager for the offering.

The shares of common stock described above are being offered by BioCryst pursuant to a shelf registration statement previously filed with and declared effective by the U.S. Securities and Exchange Commission. A preliminary prospectus supplement related to the offering was filed with the SEC and is available on the SEC's website located at <http://www.sec.gov>. Copies of the final prospectus supplement and the accompanying prospectus relating to this offering, when available, may be obtained from Wells Fargo Securities, LLC, 1525 West W.T. Harris Boulevard, NC0675, Charlotte, NC 28262, Attn: Capital Markets Client Support, telephone: 1-800-326-5897 or email: cmclientsupport@wellsfargo.com; or JMP Securities LLC, Attn: Prospectus Department, 600 Montgomery Street, 10th Floor, San Francisco, CA 94111, telephone: 1-415-835-8985.

This press release does not constitute an offer to sell, or the solicitation of an offer to buy, these securities, nor will there be any sale of these securities in any state or other jurisdiction in which such offer, solicitation or sale is not permitted.

About BioCryst Pharmaceuticals

BioCryst Pharmaceuticals designs, optimizes and develops novel small molecule drugs that block key enzymes involved in infectious and inflammatory diseases, with the goal of addressing unmet medical needs of patients and physicians. BioCryst currently has two late-stage development programs: peramivir, a viral neuraminidase inhibitor for the treatment of influenza, and ulodesine, a purine nucleoside phosphorylase (PNP) inhibitor for the treatment of gout. In addition, BioCryst has several early-stage programs: BCX4161 and a next generation oral inhibitor of plasma kallikrein for hereditary angioedema and BCX4430, a broad spectrum

antiviral for hemorrhagic fevers. For more information, please visit the Company's website at www.BioCryst.com.

This press release contains forward-looking statements, including statements regarding future results and achievements. These statements involve known and unknown risks, uncertainties and other factors which may cause our actual results, performance or achievements to be materially different from any future results, performances or achievements expressed or implied by the forward-looking statements. Please refer to the documents BioCryst files periodically with the SEC and located at <http://investor.shareholder.com/biocryst/sec.cfm>.

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BCRXW

CONTACT: Robert Bennett, BioCryst Pharmaceuticals, +1-919-859-7910 (investors & media)



BIOCRYST ANNOUNCES FULL EXERCISE OF OVER ALLOTMENT OPTION

Research Triangle Park, North Carolina – August 5, 2013 – BioCryst Pharmaceuticals, Inc. (Nasdaq: BCRX) today announced that the underwriters of its recent public offering of its common stock have exercised in full their option to purchase an additional 600,000 shares. The total gross proceeds from this offering to BioCryst, including from the exercise of the over-allotment option, are expected to be \$20.2 million, before deducting underwriting discounts and commissions and other estimated offering expenses payable by BioCryst. BioCryst expects to use net proceeds of this offering for general corporate purposes, including funding clinical development of BCX4161, continued development of second generation hereditary angioedema compounds and pre-commercialization activities related to intravenous peramivir. The offering, including the sale of the additional shares, is expected to close on August 6, 2013, subject to customary closing conditions.

Wells Fargo Securities, LLC and JMP Securities LLC acted as joint book-running managers, and Noble Financial Capital Markets acted as co-manager for the offering.

The shares of common stock described above are being offered by BioCryst pursuant to a shelf registration statement previously filed with and declared effective by the U.S. Securities and Exchange Commission. A final prospectus supplement related to the offering was filed with the SEC and is available on the SEC's website located at <http://www.sec.gov>. Copies of the final prospectus supplement and the accompanying prospectus relating to this offering may be obtained from Wells Fargo Securities, LLC, 1525 West W.T. Harris Boulevard, NC0675, Charlotte, NC 28262, Attn: Capital Markets Client Support, telephone: 1-800-326-5897 or email: cmclientsupport@wellsfargo.com; or JMP Securities LLC, Attn: Prospectus Department, 600 Montgomery Street, 10th Floor, San Francisco, CA 94111, telephone: 1-415-835-8985.

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BCRXW

CONTACT: Robert Bennett, BioCryst Pharmaceuticals, +1-919-859-7910 (investors & media)