

**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): **September 9, 2009**

ZIOPHARM Oncology, Inc.

(Exact Name of Registrant as Specified in Charter)

Delaware
(State or Other Jurisdiction
of Incorporation)

0-32353
(Commission File Number)

84-1475672
(IRS Employer
Identification No.)

1180 Avenue of the Americas
19th Floor
New York, NY
(Address of Principal Executive Offices)

10036
(Zip Code)

(646) 214-0700
(Registrant's telephone number, including area code)

Not applicable
(Former Name or Former Address, if Changed Since Last Report)

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

- Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425).
 - Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12).
 - Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b)).
 - Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c)).
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Item 1.01 Entry into a Material Definitive Agreement

On September 9, 2009, ZIOPHARM Oncology, Inc. (ZIOPHARM or the “Company”) entered into a securities purchase agreement and related documentation with certain investors pursuant to which it has agreed to sell a total of 2,772,337 units (the “Units”), each Unit consisting of (i) one share of common stock (collectively, the “Shares”) and (ii) a warrant (collectively, the “Warrants”) to purchase one share of common stock at an exercise price of \$2.04 per share, for a purchase price of \$1.825 per Unit (the “Offering”). The Warrants will have a five year term and will be exercisable immediately following the closing of the transaction. Based on the securities purchase agreement and related documentation, total gross proceeds from the Offering will be approximately \$5.06 million, before deducting selling commissions and expenses. Upon satisfaction of customary closing conditions, the closing of the transaction occurred on September 15, 2009.

In connection with the Offering, the Company entered into a placement agency agreement with Rodman & Renshaw, LLC, a subsidiary of Rodman & Renshaw Capital Group, Inc. (“Rodman”), whereby Rodman agreed to act as a placement agent in connection with the placement of the Shares and Warrants. Riverbank Capital Securities, Inc. and Griffin Securities, Inc. served as sub-placement agents in connection with the Offering. In consideration for their services, the Company paid aggregate cash commissions equal to seven percent of the gross cash proceeds from the Offering, or approximately \$0.35 million. The Company also issued five-year warrants to the Placement Agents to purchase an aggregate of five percent of the Shares sold in the Offering at an exercise price of \$2.04 per share (the “Placement Warrants”). The Company has also agreed to reimburse Rodman for up to \$50,000 of the out-of-pocket expenses it incurs in connection with its engagement.

Timothy McInerney, who serves on the Board of Directors of the Company, is an officer of Riverbank Capital Securities, Inc. Riverbank Capital Securities, Inc. may allocate to Mr. McInerney a portion of the compensation that it will receive for serving as a sub-placement agent. In light of the relationship between Mr. McInerney and the Placement Agent, Mr. McInerney abstained from voting as a director on matters related to the selection of the Placement Agents and the terms of the offering were reviewed and approved by a special financing committee of which Mr. McInerney was not a member.

Also in connection with the Offering and pursuant to a registration rights agreement, the Company has agreed to file a “resale” registration statement (the “Initial Registration Statement”) covering all of the Shares and the shares issuable upon exercise of the Warrants and the Placement Warrants (the “Warrant Shares”), up to the maximum number of shares able to be registered pursuant to applicable Securities and Exchange Commission (“SEC”) regulations, within 30 days of the closing of the Offering. If any Shares or Warrant Shares are unable to be included on the Initial Registration Statement, the Company has agreed to file subsequent registration statements until all the Shares and Warrant Shares have been registered. The Company is obligated to maintain the effectiveness of the “resale” registration statement until all securities therein are sold or are otherwise can be sold pursuant to Rule 144, without any restrictions.

The foregoing description of each of the securities purchase agreement, the registration rights agreement and the form of Warrant and Placement Warrant is qualified in its entirety by reference thereto, which are filed as Exhibits 10.1, 10.2, 4.1 and 4.2 to this Current Report, respectively, and are incorporated herein by reference. The press release announcing the Offering is attached hereto as Exhibit 99.1 and is incorporated herein by reference.

Item 3.02 Unregistered Sales of Equity Securities

The disclosure in Item 1.01 is incorporated herein by reference thereto. Neither the Shares, Warrants or Placement Agent Warrants to be sold and issued in the Offering (including the shares of common stock issuable upon exercise of the Warrants or Placement Agent Warrants), will be registered under the Securities Act of 1933, as amended (the “Securities Act”) at the time of sale, and therefore may not be offered or sold in the United States absent registration or an applicable exemption from registration requirements. For these issuances, the Company is relying on the exemption from federal registration under Section 4(2) of the Securities Act and/or Rule 506 promulgated thereunder, based on the Company’s belief that the offer and sale of the Shares, Warrants and Placement Agent Warrants has not and will not involve a public offering as each investor was “accredited” and no general solicitation has been involved in the Offering.

Item 9.01 **Financial Statements and Exhibits**

(d) Exhibits

<u>Exhibit No.</u>	<u>Description</u>
4.1	Form of Warrant
4.2	Form of Placement Agent Warrant
10.1	Securities Purchase Agreement, between ZIOPHARM and each of the Purchasers identified therein, dated September 9, 2009
10.2	Registration Rights Agreement, between ZIOPHARM and each of the Holders identified therein, dated September 9, 2009
99.1	Press Release, dated September 9, 2009

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.

ZIOPHARM Oncology, Inc.

By: /s/ Richard Bagley

Name: Richard Bagley

Title: President, Chief Operating Officer and Chief Financial Officer

Date: September 15, 2009

INDEX OF EXHIBITS

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NEITHER THESE SECURITIES NOR THE SECURITIES ISSUABLE UPON EXERCISE OF THESE SECURITIES HAVE BEEN REGISTERED WITH THE SECURITIES AND EXCHANGE COMMISSION OR THE SECURITIES COMMISSION OF ANY STATE IN RELIANCE UPON AN EXEMPTION FROM REGISTRATION UNDER THE SECURITIES ACT OF 1933, AS AMENDED (THE "SECURITIES ACT"), AND, ACCORDINGLY, MAY NOT BE OFFERED OR SOLD EXCEPT PURSUANT TO AN EFFECTIVE REGISTRATION STATEMENT UNDER THE SECURITIES ACT OR PURSUANT TO AN AVAILABLE EXEMPTION FROM, OR IN A TRANSACTION NOT SUBJECT TO, THE REGISTRATION REQUIREMENTS OF THE SECURITIES ACT AND IN ACCORDANCE WITH APPLICABLE STATE SECURITIES LAWS OR BLUE SKY LAWS AS EVIDENCED BY A LEGAL OPINION OF COUNSEL REASONABLY SATISFACTORY TO THE COMPANY.

ZIOPHARM ONCOLOGY, INC.

WARRANT TO PURCHASE COMMON STOCK

Warrant No. 2009-[]

Original Issue Date: [], 2009

ZIOPHARM Oncology, Inc., a Delaware corporation (the "*Company*"), hereby certifies that, for value received, [] or its permitted registered assigns (the "*Holder*"), is entitled to purchase from the Company up to a total of [] shares of common stock, \$0.001 par value (the "*Common Stock*"), of the Company (each such share, a "*Warrant Share*" and all such shares, the "*Warrant Shares*") at an exercise price per share equal to \$[] (as adjusted from time to time as provided in Section 9 herein, the "*Exercise Price*"), at any time and from time to time from on or after the date hereof (the "*Trigger Date*") and through and including 5:30 P.M., New York City time, on [], 2014 (the "*Expiration Date*"), and subject to the following terms and conditions:

This Warrant (this "*Warrant*") is one of a series of similar warrants issued pursuant to that certain Securities Purchase Agreement, dated _____, 2009, by and among the Company and the Purchasers identified therein (the "*Purchase Agreement*"). All such warrants are referred to herein, collectively, as the "*Warrants*."

1. **Definitions.** In addition to the terms defined elsewhere in this Warrant, capitalized terms that are not otherwise defined herein have the meanings given to such terms in the Purchase Agreement.

2. **Registration of Warrants.** The Company shall register this Warrant, upon records to be maintained by the Company for that purpose (the "*Warrant Register*"), in the name of the record Holder (which shall include the initial Holder or, as the case may be, any registered assignee to which this Warrant is permissibly assigned hereunder) from time to time. The Company may deem and treat the registered Holder of this Warrant as the absolute owner hereof for the purpose of any exercise hereof or any distribution to the Holder, and for all other purposes, absent actual notice to the contrary.

3. Registration of Transfers. Subject to the restrictions on transfer set forth in Section 4.1 of the Purchase Agreement and compliance with all applicable securities laws, the Company shall register the transfer of all or any portion of this Warrant in the Warrant Register, upon (i) surrender of this Warrant, with the Form of Assignment attached as Schedule 2 hereto duly completed and signed, to the Company's transfer agent or to the Company at its address specified herein and (ii) if the Registration Statement is not effective, (x) delivery, at the request of the Company, of an opinion of counsel reasonably satisfactory to the Company to the effect that the transfer of such portion of this Warrant may be made pursuant to an available exemption from the registration requirements of the Securities Act and all applicable state securities or blue sky laws and (y) delivery by the transferee of a written statement to the Company certifying that the transferee is an "accredited investor" as defined in Rule 501(a) under the Securities Act and making the representations and certifications set forth in Section 3.2(b), (c) and (d) of the Purchase Agreement, to the Company at its address specified in the Purchase Agreement. Upon any such registration or transfer, a new warrant to purchase Common Stock in substantially the form of this Warrant (any such new warrant, a "New Warrant") evidencing the portion of this Warrant so transferred shall be issued to the transferee, and a New Warrant evidencing the remaining portion of this Warrant not so transferred, if any, shall be issued to the transferring Holder. The acceptance of the New Warrant by the transferee thereof shall be deemed the acceptance by such transferee of all of the rights and obligations of a Holder of a Warrant.

4. Exercise and Duration of Warrants.

(a) All or any part of this Warrant shall be exercisable by the registered Holder at any time and from time to time on or after the Trigger Date and through and including 5:30 P.M. New York City time on the Expiration Date. [Subject to Section 12 hereof, at] [At] 5:30 P.M., New York City time, on the Expiration Date, the portion of this Warrant not exercised prior thereto shall be and become void and of no value and this Warrant shall be terminated and no longer outstanding;

(b) The Holder may exercise this Warrant by delivering to the Company (i) an exercise notice, in the form attached as Schedule 1 hereto (the "Exercise Notice"), appropriately completed and duly signed, (ii) payment of the Exercise Price in immediately available funds for the number of Warrant Shares as to which this Warrant is being exercised, and the date such items are delivered to the Company (as determined in accordance with the notice provisions hereof) is an "Exercise Date." The delivery by (or on behalf of) the Holder of the Exercise Notice and the applicable Exercise Price as provided above shall constitute the Holder's certification to the Company that its representations contained in Section 3.2(b), (c) and (d) of the Purchase Agreement are true and correct as of the Exercise Date as if remade in their entirety (or, in the case of any transferee Holder that is not a party to the Purchase Agreement, such transferee Holder's certification to the Company that such representations are true and correct as to such assignee Holder as of the Exercise Date). The Holder shall not be required to deliver the original Warrant in order to effect an exercise hereunder. Execution and delivery of the Exercise Notice shall have the same effect as cancellation of the original Warrant and issuance of a New Warrant evidencing the right to purchase the remaining number of Warrant Shares.

5. Delivery of Warrant Shares.

(a) Upon exercise of this Warrant, the Company shall promptly (but in no event later than three Trading Days after the Exercise Date) issue or cause to be issued and cause to be delivered to or upon the written order of the Holder and in such name or names as the Holder may designate (provided that, if the Registration Statement is not effective and the Holder directs the Company to deliver a certificate for the Warrant Shares in a name other than that of the Holder or an Affiliate of the Holder, it shall deliver to the Company on the Exercise Date an opinion of counsel reasonably satisfactory to the Company to the effect that the issuance of such Warrant Shares in such other name may be made pursuant to an available exemption from the registration requirements of the Securities Act and all applicable state securities or blue sky laws), a certificate for the Warrant Shares issuable upon such exercise, free of restrictive legends, unless a registration statement covering the resale of the Warrant Shares and naming the Holder as a selling stockholder thereunder is not then effective or the Warrant Shares are not freely transferable pursuant to Rule 144 under the Securities Act pursuant to transactions in which paragraph (c)(1) of such rule do not apply. The Holder, or any Person permissibly so designated by the Holder to receive Warrant Shares, shall be deemed to have become the holder of record of such Warrant Shares as of the Exercise Date. If the Warrant Shares are to be issued free of all restrictive legends, the Company shall, upon the written request of the Holder, use its best efforts to deliver, or cause to be delivered, Warrant Shares hereunder electronically through The Depository Trust Company or another established clearing corporation performing similar functions, if available; provided, that, the Company may, but will not be required to, change its transfer agent if its current transfer agent cannot deliver Warrant Shares electronically through such a clearing corporation.

(b) If (1) a certificate representing the Warrant Shares is not delivered to the Holder within three (3) Trading Days of the due exercise of this Warrant by the Holder and (2) prior to the time such certificate is received by the Holder, the Holder, or any third party on behalf of the Holder or for the Holder's account, purchases (in an open market transaction or otherwise) shares of Common Stock to deliver in satisfaction of a sale by the Holder of shares represented by such certificate (a "Buy-In"), then the Company shall pay in cash to the Holder (for costs incurred either directly by such Holder or on behalf of a third party) the amount by which the total purchase price paid for Common Stock as a result of the Buy-In (including brokerage commissions, if any) exceeds the proceeds received by such Holder as a result of the sale to which such Buy-In relates. The Holder shall provide the Company written notice indicating the amounts payable to the Holder in respect of the Buy-In and, upon request of the Company, evidence of the amount of such loss.

6. Charges, Taxes and Expenses. Issuance and delivery of certificates for shares of Common Stock upon exercise of this Warrant shall be made without charge to the Holder for any issue or transfer tax, transfer agent fee or other incidental tax or expense in respect of the issuance of such certificates, all of which taxes and expenses shall be paid by the Company; *provided, however*, that the Company shall not be required to pay any tax which may be payable in respect of any transfer involved in the registration of any certificates for Warrant Shares or Warrants in a name other than that of the Holder or an Affiliate thereof. The Holder shall be responsible for all other tax liability that may arise as a result of holding or transferring this Warrant or receiving Warrant Shares upon exercise hereof.

7. Replacement of Warrant. If this Warrant is mutilated, lost, stolen or destroyed, the Company shall issue or cause to be issued in exchange and substitution for and upon cancellation hereof, or in lieu of and substitution for this Warrant, a New Warrant, but only upon receipt of evidence reasonably satisfactory to the Company of such loss, theft or destruction (in such case) and, in each case, a customary and reasonable indemnity (which shall not include a surety bond), if requested. Applicants for a New Warrant under such circumstances shall also comply with such other reasonable regulations and procedures and pay such other reasonable third-party costs as the Company may prescribe. If a New Warrant is requested as a result of a mutilation of this Warrant, then the Holder shall deliver such mutilated Warrant to the Company as a condition precedent to the Company's obligation to issue the New Warrant.

8. **Reservation of Warrant Shares.** The Company covenants that it will at all times reserve and keep available out of the aggregate of its authorized but unissued and otherwise unreserved Common Stock, solely for the purpose of enabling it to issue Warrant Shares upon exercise of this Warrant as herein provided, the number of Warrant Shares which are then issuable and deliverable upon the exercise of this entire Warrant, free from preemptive rights or any other contingent purchase rights of persons other than the Holder (taking into account the adjustments and restrictions of Section 9). The Company covenants that all Warrant Shares so issuable and deliverable shall, upon issuance and the payment of the applicable Exercise Price in accordance with the terms hereof, be duly and validly authorized, issued and fully paid and nonassessable. The Company will take all such action as may be necessary to assure that such shares of Common Stock may be issued as provided herein without violation of any applicable law or regulation, or of any requirements of any securities exchange or automated quotation system upon which the Common Shares may be listed.

9. **Certain Adjustments.** The Exercise Price and number of Warrant Shares issuable upon exercise of this Warrant are subject to adjustment from time to time as set forth in this Section 9.

(a) **Stock Dividends and Splits.** If the Company, at any time while this Warrant is outstanding, (i) pays a stock dividend on its Common Stock or otherwise makes a distribution on any class of capital stock that is payable in shares of Common Stock, (ii) subdivides its outstanding shares of Common Stock into a larger number of shares, or (iii) combines its outstanding shares of Common Stock into a smaller number of shares, then in each such case the Exercise Price shall be multiplied by a fraction, the numerator of which shall be the number of shares of Common Stock outstanding immediately before such event and the denominator of which shall be the number of shares of Common Stock outstanding immediately after such event. Any adjustment made pursuant to clause (i) of this paragraph shall become effective immediately after the record date for the determination of stockholders entitled to receive such dividend or distribution, and any adjustment pursuant to clause (ii) or (iii) of this paragraph shall become effective immediately after the effective date of such subdivision or combination.

(b) **Fundamental Transactions.** If, at any time while this Warrant is outstanding (i) the Company effects any merger or consolidation of the Company with or into another Person, in which the shareholders of the Company as of immediately prior to the transaction own less than a majority of the outstanding stock of the surviving entity, (ii) the Company effects any sale of all or substantially all of its assets or a majority of its Common Stock is acquired by a third party, in each case, in one or a series of related transactions, (iii) any tender offer or exchange offer (whether by the Company or another Person) is completed pursuant to which all or substantially all of the holders of Common Stock are permitted to tender or exchange their shares for other securities, cash or property and would result in the shareholders of the Company immediately prior to such tender offer or exchange offer owning less than a majority of the outstanding stock after such tender offer or exchange offer, or (iv) the Company effects any reclassification of the Common Stock or any compulsory share exchange pursuant to which the Common Stock is effectively converted into or exchanged for other securities, cash or property (other than as a result of a subdivision or combination of shares of Common Stock covered by Section 9(a) above) (in any such case, a “*Fundamental Transaction*”), then the Holder shall have the right thereafter to receive, upon exercise of this Warrant, the same amount and kind of securities, cash or property as it would have been entitled to receive upon the occurrence of such Fundamental Transaction if it had been, immediately prior to such Fundamental Transaction, the holder of the number of Warrant Shares then issuable upon exercise in full of this Warrant without regard to any limitations on exercise contained herein (the “*Alternate Consideration*”). The Company shall not effect any such Fundamental Transaction unless prior to or simultaneously with the consummation thereof, any successor to the Company, surviving entity or the corporation purchasing or otherwise acquiring such assets or other appropriate corporation or entity shall assume the obligation to deliver to the Holder, such Alternate Consideration as, in accordance with the foregoing provisions, the Holder may be entitled to purchase and/or receive (as the case may be), and the other obligations under this Warrant. The provisions of this paragraph (c) shall similarly apply to subsequent transactions analogous to a Fundamental Transaction.

(c) Number of Warrant Shares. Simultaneously with any adjustment to the Exercise Price pursuant to paragraph (a) of this Section, the number of Warrant Shares that may be purchased upon exercise of this Warrant shall be increased or decreased proportionately, so that after such adjustment the aggregate Exercise Price payable hereunder for the increased or decreased number of Warrant Shares shall be the same as the aggregate Exercise Price in effect immediately prior to such adjustment.

(d) Calculations. All calculations under this Section 9 shall be made to the nearest cent or the nearest 1/100th of a share, as applicable. The number of shares of Common Stock outstanding at any given time shall not include shares owned or held by or for the account of the Company, and the sale or issuance of any such shares shall be considered an issue or sale of Common Stock.

(e) Notice of Adjustments. Upon the occurrence of each adjustment pursuant to this Section 9, the Company at its expense will, at the written request of the Holder, compute such adjustment, in good faith, in accordance with the terms of this Warrant and prepare a certificate setting forth such adjustment, including a statement of the adjusted Exercise Price and adjusted number or type of Warrant Shares or other securities issuable upon exercise of this Warrant (as applicable), describing the transactions giving rise to such adjustments and showing in detail the facts upon which such adjustment is based. Upon written request, the Company will deliver a copy of each such certificate to the Holder and to the Company's transfer agent.

10. Optional Redemption by Company. At any time prior to the Expiration Date and provided that the resale of the Warrant Shares by the Holder is then registered pursuant to an effective registration statement under the Securities Act or is otherwise exempt from the registration requirements of the Securities Act, the Company shall have the option to redeem this Warrant, upon not less than 30 days' prior written notice, at a redemption price of \$.001 per Warrant Share at any time after the per share volume weighted average price per share of Common Stock, over 20 consecutive trading days, equals or exceeds 250% of the Exercise Price then in effect. Such notice shall also state the current Per Share Warrant Price and the date on which the right to exercise the Warrant will expire unless extended by the Company. During the 30 day notice period, the Holder shall be entitled to exercise all or any portion of this Warrant in accordance with the terms of Section 1. The Company shall deliver to the Holder within five business days after the expiration of the 30 day notice period the redemption price for any Warrants outstanding at the expiration of such notice period.

11. Payment of Exercise Price. The Holder shall pay the Exercise Price in immediately available funds; *provided, however*, that if, on any Exercise Date the shares issuable upon exercise of this Warrant are not freely resalable without restriction under the Securities Act, the Holder may, in its sole discretion, satisfy its obligation to pay the Exercise Price through a "cashless exercise", in which event the Company shall issue to the Holder the number of Warrant Shares determined as follows:

$$X = Y [(A-B)/A]$$

where:

X = the number of Warrant Shares to be issued to the Holder.

Y = the total number of Warrant Shares with respect to which this Warrant is being exercised.

A = the average of the Closing Sale Prices of the shares of Common Stock (as reported by Bloomberg Financial Markets) for the five Trading Days ending on the date immediately preceding the Exercise Date.

B = the Exercise Price then in effect for the applicable Warrant Shares at the time of such exercise.

For purposes of this Warrant, "*Closing Sale Price*" means, for any security as of any date, the last trade price for such security on the principal securities exchange or trading market for such security, as reported by Bloomberg Financial Markets, or, if such exchange or trading market begins to operate on an extended hours basis and does not designate the last trade price, then the last trade price of such security prior to 4:00:00 p.m., New York Time, as reported by Bloomberg Financial Markets, or if the foregoing do not apply, the last trade price of such security in the over-the-counter market on the electronic bulletin board for such security as reported by Bloomberg Financial Markets, or, if no last trade price is reported for such security by Bloomberg Financial Markets, the average of the bid prices, or the ask prices, respectively, of any market makers for such security as reported in the "pink sheets" by Pink Sheets LLC. If the Closing Sale Price cannot be calculated for a security on a particular date on any of the foregoing bases, the Closing Sale Price of such security on such date shall be the fair market value as mutually determined by the Company and the Holder. If the Company and the Holder are unable to agree upon the fair market value of such security, then the Company shall, within two business days submit via facsimile (a) the disputed determination of the Warrant Exercise Price to an independent, reputable investment bank selected by the Company and approved by the Holder or (b) the disputed arithmetic calculation of the Warrant Shares to the Company's independent, outside accountant. The Company shall cause at its expense the investment bank or the accountant, as the case may be, to perform the determinations or calculations and notify the Company and the Holder of the results no later than ten business days from the time it receives the disputed determinations or calculations. Such investment bank's or accountant's determination or calculation, as the case may be, shall be binding upon all parties absent demonstrable error. All such determinations to be appropriately adjusted for any stock dividend, stock split, stock combination or other similar transaction during the applicable calculation period

For purposes of Rule 144 promulgated under the Securities Act, it is intended, understood and acknowledged that the Warrant Shares issued in a cashless exercise transaction shall be deemed to have been acquired by the Holder, and the holding period for the Warrant Shares shall be deemed to have commenced, on the date this Warrant was originally issued pursuant to the Purchase Agreement (provided that the Commission continues to take the position that such treatment is proper at the time of such exercise).

[12. Limitations on Exercise. [BLOCKER PROVISIONS TO BE INCLUDED ONLY IF REQUEST OF THE HOLDER.] (a) Notwithstanding anything to the contrary contained herein, the number of Warrant Shares that may be acquired by the Holder upon any exercise of this Warrant (or otherwise in respect hereof) shall be limited to the extent necessary to ensure that, following such exercise (or other issuance), the total number of shares of Common Stock then beneficially owned by the Holder and its Affiliates and any other Persons whose beneficial ownership of Common Stock would be aggregated with the Holder's for purposes of Section 13(d) of the Exchange Act, does not exceed 4.999% of the total number of issued and outstanding shares of Common Stock (including for such purpose the shares of Common Stock issuable upon such exercise). For such purposes, beneficial ownership shall be determined in accordance with Section 13(d) of the Exchange Act and the rules and regulations promulgated thereunder. Each delivery of an Exercise Notice by the Holder will constitute a representation by the Holder that it has evaluated the limitation set forth in this Section and determined that issuance of the full number of Warrant Shares requested in such Exercise Notice is permitted under this Section. The Company's obligation to issue shares of Common Stock in excess of the limitation referred to in this Section shall be suspended (and, except as provided below, shall not terminate or expire notwithstanding any contrary provisions hereof) until such time, if any, as such shares of Common Stock may be issued in compliance with such limitation; provided, that, if, as of 5:30 p.m., New York City time, on the Expiration Date, the Company has not received written notice that the shares of Common Stock may be issued in compliance with such limitation, the Company's obligation to issue such shares shall terminate. This provision shall not restrict the number of shares of Common Stock which a Holder may receive or beneficially own in order to determine the amount of securities or other consideration that such Holder may receive in the event of a Fundamental Transaction as contemplated in Section 9 of this Warrant. By written notice to the Company, the Holder may waive the provisions of this Section but any such waiver will not be effective until the 61st day after such notice is delivered to the Company, nor will any such waiver effect any other Holder.

(b) Notwithstanding anything to the contrary contained herein, the number of Warrant Shares that may be acquired by the Holder upon any exercise of this Warrant (or otherwise in respect hereof) shall be limited to the extent necessary to ensure that, following such exercise (or other issuance), the total number of shares of Common Stock then beneficially owned by such Holder and its Affiliates and any other Persons whose beneficial ownership of Common Stock would be aggregated with the Holder's for purposes of Section 13(d) of the Exchange Act, does not exceed 9.999% of the total number of issued and outstanding shares of Common Stock (including for such purpose the shares of Common Stock issuable upon such exercise). For such purposes, beneficial ownership shall be determined in accordance with Section 13(d) of the Exchange Act and the rules and regulations promulgated thereunder. Each delivery of an Exercise Notice hereunder will constitute a representation by the Holder that it has evaluated the limitation set forth in this Section and determined that issuance of the full number of Warrant Shares requested in such Exercise Notice is permitted under this Section. The Company's obligation to issue shares of Common Stock in excess of the limitation referred to in this Section shall be suspended (and, except as provided below, shall not terminate or expire notwithstanding any contrary provisions hereof) until such time, if any, as such shares of Common Stock may be issued in compliance with such limitation; provided, that, if, as of 5:30 p.m., New York City time, on the Expiration Date, the Company has not received written notice that the shares of Common Stock may be issued in compliance with such limitation, the Company's obligation to issue such shares shall terminate. This provision shall not restrict the number of shares of Common Stock which a Holder may receive or beneficially own in order to determine the amount of securities or other consideration that such Holder may receive in the event of a Fundamental Transaction as contemplated in Section 9 of this Warrant. This restriction may not be waived.]

13. No Fractional Shares. No fractional Warrant Shares will be issued in connection with any exercise of this Warrant. In lieu of any fractional shares which would otherwise be issuable, [subject to Section 12,] the number of Warrant Shares to be issued shall be rounded up to the next whole number.

14. Notices. Any and all notices or other communications or deliveries hereunder (including, without limitation, any Exercise Notice) shall be in writing and shall be deemed given and effective on the earliest of (i) the date of transmission, if such notice or communication is delivered via facsimile at the facsimile number specified in the Purchase Agreement prior to 5:30 p.m. (New York City time) on a Trading Day, (ii) the next Trading Day after the date of transmission, if such notice or communication is delivered via facsimile at the facsimile number specified in the Purchase Agreement on a day that is not a Trading Day or later than 5:30 p.m. (New York City time) on any Trading Day, (iii) the Trading Day following the date of mailing, if sent by nationally recognized overnight courier service specifying next business day delivery, or (iv) upon actual receipt by the party to whom such notice is required to be given, if by hand delivery. The address and facsimile number of a party for such notices or communications shall be as set forth in the Purchase Agreement unless changed by such party by two Trading Days' prior notice to the other party in accordance with this Section 14.

15. Warrant Agent. The Company shall serve as warrant agent under this Warrant. Upon thirty (30) days' notice to the Holder, the Company may appoint a new warrant agent. Any corporation into which the Company or any new warrant agent may be merged or any corporation resulting from any consolidation to which the Company or any new warrant agent shall be a party or any corporation to which the Company or any new warrant agent transfers substantially all of its corporate trust or shareholders services business shall be a successor warrant agent under this Warrant without any further act. Any such successor warrant agent shall promptly cause notice of its succession as warrant agent to be mailed (by first class mail, postage prepaid) to the Holder at the Holder's last address as shown on the Warrant Register.

16. Miscellaneous.

(a) The Holder, solely in such Person's capacity as a holder of this Warrant, shall not be entitled to vote or receive dividends or be deemed the holder of share capital of the Company for any purpose, nor shall anything contained in this Warrant be construed to confer upon the Holder, solely in such Person's capacity as the Holder of this Warrant, any of the rights of a stockholder of the Company or any right to vote, give or withhold consent to any corporate action (whether any reorganization, issue of stock, reclassification of stock, consolidation, merger, amalgamation, conveyance or otherwise), receive notice of meetings, receive dividends or subscription rights, or otherwise, prior to the issuance to the Holder of the Warrant Shares which such Person is then entitled to receive upon the due exercise of this Warrant. In addition, nothing contained in this Warrant shall be construed as imposing any liabilities on the Holder to purchase any securities (upon exercise of this Warrant or otherwise) or as a stockholder of the Company, whether such liabilities are asserted by the Company or by creditors of the Company. Notwithstanding this Section 15(a), the Company shall provide the Holder with copies of the same notices and other information given to the shareholders of the Company, contemporaneously with the giving thereof to the shareholders.

(b) Subject to the restrictions on transfer set forth on the first page hereof and in Section 4.1 of the Purchase Agreement, and compliance with applicable securities laws, this Warrant may be assigned by the Holder. This Warrant may not be assigned by the Company except to a successor in the event of a Fundamental Transaction. This Warrant shall be binding on and inure to the benefit of the parties hereto and their respective successors and assigns. Subject to the preceding sentence, nothing in this Warrant shall be construed to give to any Person other than the Company and the Holder any legal or equitable right, remedy or cause of action under this Warrant. This Warrant may be amended only in writing signed by the Company and the Holder, or their successors and assigns.

(c) GOVERNING LAW; VENUE; WAIVER OF JURY TRIAL. ALL QUESTIONS CONCERNING THE CONSTRUCTION, VALIDITY, ENFORCEMENT AND INTERPRETATION OF THIS WARRANT SHALL BE GOVERNED BY AND CONSTRUED AND ENFORCED IN ACCORDANCE WITH THE LAWS OF THE STATE OF NEW YORK WITHOUT REGARD TO THE PRINCIPLES OF CONFLICTS OF LAW THEREOF. EACH PARTY HEREBY IRREVOCABLY SUBMITS TO THE EXCLUSIVE JURISDICTION OF THE STATE AND FEDERAL COURTS SITTING IN THE CITY OF NEW YORK, BOROUGH OF MANHATTAN, FOR THE ADJUDICATION OF ANY DISPUTE HEREUNDER OR IN CONNECTION HEREWITH OR WITH ANY TRANSACTION CONTEMPLATED HEREBY OR DISCUSSED HEREIN (INCLUDING WITH RESPECT TO THE ENFORCEMENT OF ANY OF THE TRANSACTION DOCUMENTS), AND HEREBY IRREVOCABLY WAIVES, AND AGREES NOT TO ASSERT IN ANY SUIT, ACTION OR PROCEEDING, ANY CLAIM THAT IT IS NOT PERSONALLY SUBJECT TO THE JURISDICTION OF ANY SUCH COURT, THAT SUCH SUIT, ACTION OR PROCEEDING IS IMPROPER. EACH PARTY HEREBY IRREVOCABLY WAIVES PERSONAL SERVICE OF PROCESS AND CONSENTS TO PROCESS BEING SERVED IN ANY SUCH SUIT, ACTION OR PROCEEDING BY MAILING A COPY THEREOF VIA REGISTERED OR CERTIFIED MAIL OR OVERNIGHT DELIVERY (WITH EVIDENCE OF DELIVERY) TO SUCH PARTY AT THE ADDRESS IN EFFECT FOR NOTICES TO IT UNDER THIS AGREEMENT AND AGREES THAT SUCH SERVICE SHALL CONSTITUTE GOOD AND SUFFICIENT SERVICE OF PROCESS AND NOTICE THEREOF. NOTHING CONTAINED HEREIN SHALL BE DEEMED TO LIMIT IN ANY WAY ANY RIGHT TO SERVE PROCESS IN ANY MANNER PERMITTED BY LAW. THE COMPANY HEREBY WAIVES ALL RIGHTS TO A TRIAL BY JURY.

(d) The headings herein are for convenience only, do not constitute a part of this Warrant and shall not be deemed to limit or affect any of the provisions hereof.

(e) In case any one or more of the provisions of this Warrant shall be invalid or unenforceable in any respect, the validity and enforceability of the remaining terms and provisions of this Warrant shall not in any way be affected or impaired thereby, and the parties will attempt in good faith to agree upon a valid and enforceable provision which shall be a commercially reasonable substitute therefor, and upon so agreeing, shall incorporate such substitute provision in this Warrant.

(f) Except as otherwise set forth herein, prior to exercise of this Warrant, the Holder hereof shall not, by reason of by being a Holder, be entitled to any rights of a stockholder with respect to the Warrant Shares.

[REMAINDER OF PAGE INTENTIONALLY LEFT BLANK,
SIGNATURE PAGE FOLLOWS]

IN WITNESS WHEREOF, the Company has caused this Warrant to be duly executed by its authorized officer as of the date first indicated above.

ZIOPHARM ONCOLOGY, INC

By: _____
Name:
Title:

SCHEDULE 1

FORM OF EXERCISE NOTICE

(To be executed by the Holder to exercise the right to purchase shares
of Common Stock under the foregoing Warrant)

To: ZIOPHARM Oncology, Inc.

(1) The undersigned is the Holder of Warrant No. _____ (the "Warrant") issued by ZIOPHARM Oncology, Inc. a Delaware corporation (the "Company"). Capitalized terms used herein and not otherwise defined herein have the respective meanings set forth in the Warrant.

(2) The undersigned hereby exercises its right to purchase _____ Warrant Shares pursuant to the Warrant.

(3) The Holder intends that payment of the Exercise Price shall be made as (check one):

o Cash Exercise

o "Cashless Exercise" under Section 11

(4) If the Holder has elected a Cash Exercise, the Holder shall pay the sum of \$ _____ in immediately available funds to the Company in accordance with the terms of the Warrant.

(5) Pursuant to this Exercise Notice, the Company shall deliver to the Holder _____ Warrant Shares in accordance with the terms of the Warrant.

[(6) [INCLUDE ONLY IF WARRANT CONTAINS BLOCKER PROVISION AT THE REQUEST OF THE PURCHASER.] [By its delivery of this Exercise Notice, the undersigned represents and warrants to the Company that in giving effect to the exercise evidenced hereby, the Holder will not beneficially own in excess of the number of shares of Common Stock (as determined in accordance with Section 13(d) of the Securities Exchange Act of 1934) permitted to be owned under Section 12 of this Warrant to which this notice relates.]

Dated: _____, _____

Name of Holder: _____

By: _____

Name: _____

Title: _____

(Signature must conform in all respects to name of
Holder as specified on the face of the Warrant)

SCHEDULE 2

ZIOPHARM ONCOLOGY, INC.

FORM OF ASSIGNMENT

[To be completed and signed only upon transfer of Warrant]

FOR VALUE RECEIVED, the undersigned hereby sells, assigns and transfers unto _____ (the "Transferee" the right represented by the within Warrant to purchase _____ shares of Common Stock of ZIOPHARM Oncology, Inc. (the "Company") to which the within Warrant relates and appoints _____ attorney to transfer said right on the books of the Company with full power of substitution in the premises. In connection therewith, the undersigned represents, warrants, covenants and agrees to and with the Company that:

- (a) the offer and sale of the Warrant contemplated hereby is being made in compliance with Section 4(1) of the United States Securities Act of 1933, as amended (the "Securities Act") or another valid exemption from the registration requirements of Section 5 of the Securities Act and in compliance with all applicable securities laws of the states of the United States;
- (b) the undersigned has not offered to sell the Warrant by any form of general solicitation or general advertising, including, but not limited to, any advertisement, article, notice or other communication published in any newspaper, magazine or similar media or broadcast over television or radio, and any seminar or meeting whose attendees have been invited by any general solicitation or general advertising;
- (c) the undersigned has read the Transferee's investment letter included herewith, and to its actual knowledge, the statements made therein are true and correct; and
- (d) the undersigned understands that the Company may condition the transfer of the Warrant contemplated hereby upon the delivery to the Company by the undersigned or the Transferee, as the case may be, of a written opinion of counsel (which opinion shall be in form, substance and scope customary for opinions of counsel in comparable transactions) to the effect that such transfer may be made without registration under the Securities Act and under applicable securities laws of the states of the United States.

Dated: _____, __

(Signature must conform in all respects to name of holder as specified on the face of the Warrant)

Address of Transferee

In the presence of:

NEITHER THESE SECURITIES NOR THE SECURITIES ISSUABLE UPON EXERCISE OF THESE SECURITIES HAVE BEEN REGISTERED WITH THE SECURITIES AND EXCHANGE COMMISSION OR THE SECURITIES COMMISSION OF ANY STATE IN RELIANCE UPON AN EXEMPTION FROM REGISTRATION UNDER THE SECURITIES ACT OF 1933, AS AMENDED (THE "SECURITIES ACT"), AND, ACCORDINGLY, MAY NOT BE OFFERED OR SOLD EXCEPT PURSUANT TO AN EFFECTIVE REGISTRATION STATEMENT UNDER THE SECURITIES ACT OR PURSUANT TO AN AVAILABLE EXEMPTION FROM, OR IN A TRANSACTION NOT SUBJECT TO, THE REGISTRATION REQUIREMENTS OF THE SECURITIES ACT AND IN ACCORDANCE WITH APPLICABLE STATE SECURITIES LAWS OR BLUE SKY LAWS AS EVIDENCED BY A LEGAL OPINION OF COUNSEL REASONABLY SATISFACTORY TO THE COMPANY.

ZIOPHARM ONCOLOGY, INC.

WARRANT TO PURCHASE COMMON STOCK

Warrant No. PA2009-[]

Original Issue Date: [], 2009

ZIOPHARM Oncology, Inc., a Delaware corporation (the "*Company*"), hereby certifies that, for value received, [] or its permitted registered assigns (the "*Holder*"), is entitled to purchase from the Company up to a total of [] shares of common stock, \$0.001 par value (the "*Common Stock*"), of the Company (each such share, a "*Warrant Share*" and all such shares, the "*Warrant Shares*") at an exercise price per share equal to \$2.04 (as adjusted from time to time as provided in Section 9 herein, the "*Exercise Price*"), at any time and from time to time from on or after the date hereof (the "*Trigger Date*") and through and including 5:30 P.M., New York City time, on [], 2014 (the "*Expiration Date*"), and subject to the following terms and conditions:

This Warrant (this "*Warrant*") is being issued in connection with a private placement of common stock and warrants to purchase common stock pursuant to Securities Purchase Agreements dated September 9, 2009, by and among the Company and the Purchasers identified therein (the "*Purchase Agreements*"). This Warrant (this "*Warrant*") is one of a series of similar warrants issued pursuant to that certain Placement Agents' engagement letter dated August 7, 2009, by and between the Company and Rodman and Renshaw, LLC (the "*Engagement Letter*"). All such warrants are referred to herein, collectively, as the "*Warrants*."

1. **Definitions.** In addition to the terms defined elsewhere in this Warrant, capitalized terms that are not otherwise defined herein have the meanings given to such terms in the Purchase Agreement.

2. **Registration of Warrants.** The Company shall register this Warrant, upon records to be maintained by the Company for that purpose (the "*Warrant Register*"), in the name of the record Holder (which shall include the initial Holder or, as the case may be, any registered assignee to which this Warrant is permissibly assigned hereunder) from time to time. The Company may deem and treat the registered Holder of this Warrant as the absolute owner hereof for the purpose of any exercise hereof or any distribution to the Holder, and for all other purposes, absent actual notice to the contrary.

3. Registration of Transfers. Subject to the restrictions on transfer set forth in Section 4.1 of the Purchase Agreement and compliance with all applicable securities laws, the Company shall register the transfer of all or any portion of this Warrant in the Warrant Register, upon (i) surrender of this Warrant, with the Form of Assignment attached as Schedule 2 hereto duly completed and signed, to the Company's transfer agent or to the Company at its address specified herein and (ii) if the Registration Statement is not effective, (x) delivery, at the request of the Company, of an opinion of counsel reasonably satisfactory to the Company to the effect that the transfer of such portion of this Warrant may be made pursuant to an available exemption from the registration requirements of the Securities Act and all applicable state securities or blue sky laws and (y) delivery by the transferee of a written statement to the Company certifying that the transferee is an "accredited investor" as defined in Rule 501(a) under the Securities Act and making the representations and certifications set forth in Section 3.2(b), (c) and (d) of the Purchase Agreement, to the Company at its address specified in the Purchase Agreement. Upon any such registration or transfer, a new warrant to purchase Common Stock in substantially the form of this Warrant (any such new warrant, a "*New Warrant*") evidencing the portion of this Warrant so transferred shall be issued to the transferee, and a New Warrant evidencing the remaining portion of this Warrant not so transferred, if any, shall be issued to the transferring Holder. The acceptance of the New Warrant by the transferee thereof shall be deemed the acceptance by such transferee of all of the rights and obligations of a Holder of a Warrant.

4. Exercise and Duration of Warrants.

(a) All or any part of this Warrant shall be exercisable by the registered Holder at any time and from time to time on or after the Trigger Date and through and including 5:30 P.M. New York City time on the Expiration Date. At 5:30 P.M., New York City time, on the Expiration Date, the portion of this Warrant not exercised prior thereto shall be and become void and of no value and this Warrant shall be terminated and no longer outstanding;

(b) The Holder may exercise this Warrant by delivering to the Company (i) an exercise notice, in the form attached as Schedule 1 hereto (the "*Exercise Notice*"), appropriately completed and duly signed, (ii) payment of the Exercise Price in immediately available funds for the number of Warrant Shares as to which this Warrant is being exercised, and the date such items are delivered to the Company (as determined in accordance with the notice provisions hereof) is an "*Exercise Date*." The delivery by (or on behalf of) the Holder of the Exercise Notice and the applicable Exercise Price as provided above shall constitute the Holder's certification to the Company that its representations contained in Section 3.2(b), (c) and (d) of the Purchase Agreement are true and correct as of the Exercise Date as if remade in their entirety (or, in the case of any transferee Holder that is not a party to the Purchase Agreement, such transferee Holder's certification to the Company that such representations are true and correct as to such assignee Holder as of the Exercise Date). The Holder shall not be required to deliver the original Warrant in order to effect an exercise hereunder. Execution and delivery of the Exercise Notice shall have the same effect as cancellation of the original Warrant and issuance of a New Warrant evidencing the right to purchase the remaining number of Warrant Shares.

5. Delivery of Warrant Shares.

(a) Upon exercise of this Warrant, the Company shall promptly (but in no event later than three Trading Days after the Exercise Date) issue or cause to be issued and cause to be delivered to or upon the written order of the Holder and in such name or names as the Holder may designate (provided that, if the Registration Statement is not effective and the Holder directs the Company to deliver a certificate for the Warrant Shares in a name other than that of the Holder or an Affiliate of the Holder, it shall deliver to the Company on the Exercise Date an opinion of counsel reasonably satisfactory to the Company to the effect that the issuance of such Warrant Shares in such other name may be made pursuant to an available exemption from the registration requirements of the Securities Act and all applicable state securities or blue sky laws), a certificate for the Warrant Shares issuable upon such exercise, free of restrictive legends, unless a registration statement covering the resale of the Warrant Shares and naming the Holder as a selling stockholder thereunder is not then effective or the Warrant Shares are not freely transferable pursuant to Rule 144 under the Securities Act pursuant to transactions in which paragraph (c)(1) of such rule do not apply. The Holder, or any Person permissibly so designated by the Holder to receive Warrant Shares, shall be deemed to have become the holder of record of such Warrant Shares as of the Exercise Date. If the Warrant Shares are to be issued free of all restrictive legends, the Company shall, upon the written request of the Holder, use its best efforts to deliver, or cause to be delivered, Warrant Shares hereunder electronically through The Depository Trust Company or another established clearing corporation performing similar functions, if available; provided, that, the Company may, but will not be required to, change its transfer agent if its current transfer agent cannot deliver Warrant Shares electronically through such a clearing corporation.

(b) If (1) a certificate representing the Warrant Shares is not delivered to the Holder within three (3) Trading Days of the due exercise of this Warrant by the Holder and (2) prior to the time such certificate is received by the Holder, the Holder, or any third party on behalf of the Holder or for the Holder's account, purchases (in an open market transaction or otherwise) shares of Common Stock to deliver in satisfaction of a sale by the Holder of shares represented by such certificate (a "Buy-In"), then the Company shall pay in cash to the Holder (for costs incurred either directly by such Holder or on behalf of a third party) the amount by which the total purchase price paid for Common Stock as a result of the Buy-In (including brokerage commissions, if any) exceeds the proceeds received by such Holder as a result of the sale to which such Buy-In relates. The Holder shall provide the Company written notice indicating the amounts payable to the Holder in respect of the Buy-In and, upon request of the Company, evidence of the amount of such loss.

6. Charges, Taxes and Expenses. Issuance and delivery of certificates for shares of Common Stock upon exercise of this Warrant shall be made without charge to the Holder for any issue or transfer tax, transfer agent fee or other incidental tax or expense in respect of the issuance of such certificates, all of which taxes and expenses shall be paid by the Company; *provided, however*, that the Company shall not be required to pay any tax which may be payable in respect of any transfer involved in the registration of any certificates for Warrant Shares or Warrants in a name other than that of the Holder or an Affiliate thereof. The Holder shall be responsible for all other tax liability that may arise as a result of holding or transferring this Warrant or receiving Warrant Shares upon exercise hereof.

7. Replacement of Warrant. If this Warrant is mutilated, lost, stolen or destroyed, the Company shall issue or cause to be issued in exchange and substitution for and upon cancellation hereof, or in lieu of and substitution for this Warrant, a New Warrant, but only upon receipt of evidence reasonably satisfactory to the Company of such loss, theft or destruction (in such case) and, in each case, a customary and reasonable indemnity (which shall not include a surety bond), if requested. Applicants for a New Warrant under such circumstances shall also comply with such other reasonable regulations and procedures and pay such other reasonable third-party costs as the Company may prescribe. If a New Warrant is requested as a result of a mutilation of this Warrant, then the Holder shall deliver such mutilated Warrant to the Company as a condition precedent to the Company's obligation to issue the New Warrant.

8. Reservation of Warrant Shares. The Company covenants that it will at all times reserve and keep available out of the aggregate of its authorized but unissued and otherwise unreserved Common Stock, solely for the purpose of enabling it to issue Warrant Shares upon exercise of this Warrant as herein provided, the number of Warrant Shares which are then issuable and deliverable upon the exercise of this entire Warrant, free from preemptive rights or any other contingent purchase rights of persons other than the Holder (taking into account the adjustments and restrictions of Section 9). The Company covenants that all Warrant Shares so issuable and deliverable shall, upon issuance and the payment of the applicable Exercise Price in accordance with the terms hereof, be duly and validly authorized, issued and fully paid and nonassessable. The Company will take all such action as may be necessary to assure that such shares of Common Stock may be issued as provided herein without violation of any applicable law or regulation, or of any requirements of any securities exchange or automated quotation system upon which the Common Shares may be listed.

9. Certain Adjustments. The Exercise Price and number of Warrant Shares issuable upon exercise of this Warrant are subject to adjustment from time to time as set forth in this Section 9.

(a) Stock Dividends and Splits. If the Company, at any time while this Warrant is outstanding, (i) pays a stock dividend on its Common Stock or otherwise makes a distribution on any class of capital stock that is payable in shares of Common Stock, (ii) subdivides its outstanding shares of Common Stock into a larger number of shares, or (iii) combines its outstanding shares of Common Stock into a smaller number of shares, then in each such case the Exercise Price shall be multiplied by a fraction, the numerator of which shall be the number of shares of Common Stock outstanding immediately before such event and the denominator of which shall be the number of shares of Common Stock outstanding immediately after such event. Any adjustment made pursuant to clause (i) of this paragraph shall become effective immediately after the record date for the determination of stockholders entitled to receive such dividend or distribution, and any adjustment pursuant to clause (ii) or (iii) of this paragraph shall become effective immediately after the effective date of such subdivision or combination.

(b) Fundamental Transactions. If, at any time while this Warrant is outstanding (i) the Company effects any merger or consolidation of the Company with or into another Person, in which the shareholders of the Company as of immediately prior to the transaction own less than a majority of the outstanding stock of the surviving entity, (ii) the Company effects any sale of all or substantially all of its assets or a majority of its Common Stock is acquired by a third party, in each case, in one or a series of related transactions, (iii) any tender offer or exchange offer (whether by the Company or another Person) is completed pursuant to which all or substantially all of the holders of Common Stock are permitted to tender or exchange their shares for other securities, cash or property and would result in the shareholders of the Company immediately prior to such tender offer or exchange offer owning less than a majority of the outstanding stock after such tender offer or exchange offer, or (iv) the Company effects any reclassification of the Common Stock or any compulsory share exchange pursuant to which the Common Stock is effectively converted into or exchanged for other securities, cash or property (other than as a result of a subdivision or combination of shares of Common Stock covered by Section 9(a) above) (in any such case, a “*Fundamental Transaction*”), then the Holder shall have the right thereafter to receive, upon exercise of this Warrant, the same amount and kind of securities, cash or property as it would have been entitled to receive upon the occurrence of such Fundamental Transaction if it had been, immediately prior to such Fundamental Transaction, the holder of the number of Warrant Shares then issuable upon exercise in full of this Warrant without regard to any limitations on exercise contained herein (the “*Alternate Consideration*”). The Company shall not effect any such Fundamental Transaction unless prior to or simultaneously with the consummation thereof, any successor to the Company, surviving entity or the corporation purchasing or otherwise acquiring such assets or other appropriate corporation or entity shall assume the obligation to deliver to the Holder, such Alternate Consideration as, in accordance with the foregoing provisions, the Holder may be entitled to purchase and/or receive (as the case may be), and the other obligations under this Warrant. The provisions of this paragraph (c) shall similarly apply to subsequent transactions analogous to a Fundamental Transaction.

(c) Number of Warrant Shares. Simultaneously with any adjustment to the Exercise Price pursuant to paragraph (a) of this Section, the number of Warrant Shares that may be purchased upon exercise of this Warrant shall be increased or decreased proportionately, so that after such adjustment the aggregate Exercise Price payable hereunder for the increased or decreased number of Warrant Shares shall be the same as the aggregate Exercise Price in effect immediately prior to such adjustment.

(d) Calculations. All calculations under this Section 9 shall be made to the nearest cent or the nearest 1/100th of a share, as applicable. The number of shares of Common Stock outstanding at any given time shall not include shares owned or held by or for the account of the Company, and the sale or issuance of any such shares shall be considered an issue or sale of Common Stock.

(e) Notice of Adjustments. Upon the occurrence of each adjustment pursuant to this Section 9, the Company at its expense will, at the written request of the Holder, compute such adjustment, in good faith, in accordance with the terms of this Warrant and prepare a certificate setting forth such adjustment, including a statement of the adjusted Exercise Price and adjusted number or type of Warrant Shares or other securities issuable upon exercise of this Warrant (as applicable), describing the transactions giving rise to such adjustments and showing in detail the facts upon which such adjustment is based. Upon written request, the Company will deliver a copy of each such certificate to the Holder and to the Company's transfer agent.

10. Intentionally Omitted.

11. Payment of Exercise Price. The Holder shall pay the Exercise Price in immediately available funds, or the Holder may, in its sole discretion, satisfy its obligation to pay the Exercise Price through a "cashless exercise", in which event the Company shall issue to the Holder the number of Warrant Shares determined as follows:

$$X = Y [(A-B)/A]$$

where:

X = the number of Warrant Shares to be issued to the Holder.

Y = the total number of Warrant Shares with respect to which this Warrant is being exercised.

A = the average of the Closing Sale Prices of the shares of Common Stock (as reported by Bloomberg Financial Markets) for the five Trading Days ending on the date immediately preceding the Exercise Date.

B = the Exercise Price then in effect for the applicable Warrant Shares at the time of such exercise.

For purposes of this Warrant, "*Closing Sale Price*" means, for any security as of any date, the last trade price for such security on the principal securities exchange or trading market for such security, as reported by Bloomberg Financial Markets, or, if such exchange or trading market begins to operate on an extended hours basis and does not designate the last trade price, then the last trade price of such security prior to 4:00:00 p.m., New York Time, as reported by Bloomberg Financial Markets, or if the foregoing do not apply, the last trade price of such security in the over-the-counter market on the electronic bulletin board for such security as reported by Bloomberg Financial Markets, or, if no last trade price is reported for such security by Bloomberg Financial Markets, the average of the bid prices, or the ask prices, respectively, of any market makers for such security as reported in the "pink sheets" by Pink Sheets LLC. If the Closing Sale Price cannot be calculated for a security on a particular date on any of the foregoing bases, the Closing Sale Price of such security on such date shall be the fair market value as mutually determined by the Company and the Holder. If the Company and the Holder are unable to agree upon the fair market value of such security, then the Company shall, within two business days submit via facsimile (a) the disputed determination of the Warrant Exercise Price to an independent, reputable investment bank selected by the Company and approved by the Holder or (b) the disputed arithmetic calculation of the Warrant Shares to the Company's independent, outside accountant. The Company shall cause at its expense the investment bank or the accountant, as the case may be, to perform the determinations or calculations and notify the Company and the Holder of the results no later than ten business days from the time it receives the disputed determinations or calculations. Such investment bank's or accountant's determination or calculation, as the case may be, shall be binding upon all parties absent demonstrable error. All such determinations to be appropriately adjusted for any stock dividend, stock split, stock combination or other similar transaction during the applicable calculation period

For purposes of Rule 144 promulgated under the Securities Act, it is intended, understood and acknowledged that the Warrant Shares issued in a cashless exercise transaction shall be deemed to have been acquired by the Holder, and the holding period for the Warrant Shares shall be deemed to have commenced, on the date this Warrant was originally issued pursuant to the Purchase Agreement (provided that the Commission continues to take the position that such treatment is proper at the time of such exercise).

12. Intentionally Omitted.

13. No Fractional Shares. No fractional Warrant Shares will be issued in connection with any exercise of this Warrant. In lieu of any fractional shares which would otherwise be issuable, the number of Warrant Shares to be issued shall be rounded up to the next whole number.

14. Notices. Any and all notices or other communications or deliveries hereunder (including, without limitation, any Exercise Notice) shall be in writing and shall be deemed given and effective on the earliest of (i) the date of transmission, if such notice or communication is delivered via facsimile at the facsimile number specified in the Purchase Agreement prior to 5:30 p.m. (New York City time) on a Trading Day, (ii) the next Trading Day after the date of transmission, if such notice or communication is delivered via facsimile at the facsimile number specified in the Purchase Agreement on a day that is not a Trading Day or later than 5:30 p.m. (New York City time) on any Trading Day, (iii) the Trading Day following the date of mailing, if sent by nationally recognized overnight courier service specifying next business day delivery, or (iv) upon actual receipt by the party to whom such notice is required to be given, if by hand delivery. The address and facsimile number of a party for such notices or communications shall be as set forth in the Purchase Agreement unless changed by such party by two Trading Days' prior notice to the other party in accordance with this Section 14.

15. Warrant Agent. The Company shall serve as warrant agent under this Warrant. Upon thirty (30) days' notice to the Holder, the Company may appoint a new warrant agent. Any corporation into which the Company or any new warrant agent may be merged or any corporation resulting from any consolidation to which the Company or any new warrant agent shall be a party or any corporation to which the Company or any new warrant agent transfers substantially all of its corporate trust or shareholders services business shall be a successor warrant agent under this Warrant without any further act. Any such successor warrant agent shall promptly cause notice of its succession as warrant agent to be mailed (by first class mail, postage prepaid) to the Holder at the Holder's last address as shown on the Warrant Register.

16. Miscellaneous.

(a) The Holder, solely in such Person's capacity as a holder of this Warrant, shall not be entitled to vote or receive dividends or be deemed the holder of share capital of the Company for any purpose, nor shall anything contained in this Warrant be construed to confer upon the Holder, solely in such Person's capacity as the Holder of this Warrant, any of the rights of a stockholder of the Company or any right to vote, give or withhold consent to any corporate action (whether any reorganization, issue of stock, reclassification of stock, consolidation, merger, amalgamation, conveyance or otherwise), receive notice of meetings, receive dividends or subscription rights, or otherwise, prior to the issuance to the Holder of the Warrant Shares which such Person is then entitled to receive upon the due exercise of this Warrant. In addition, nothing contained in this Warrant shall be construed as imposing any liabilities on the Holder to purchase any securities (upon exercise of this Warrant or otherwise) or as a stockholder of the Company, whether such liabilities are asserted by the Company or by creditors of the Company. Notwithstanding this Section 15(a), the Company shall provide the Holder with copies of the same notices and other information given to the shareholders of the Company, contemporaneously with the giving thereof to the shareholders.

(b) Subject to the restrictions on transfer set forth on the first page hereof and in Section 4.1 of the Purchase Agreement, and compliance with applicable securities laws, this Warrant may be assigned by the Holder. This Warrant may not be assigned by the Company except to a successor in the event of a Fundamental Transaction. This Warrant shall be binding on and inure to the benefit of the parties hereto and their respective successors and assigns. Subject to the preceding sentence, nothing in this Warrant shall be construed to give to any Person other than the Company and the Holder any legal or equitable right, remedy or cause of action under this Warrant. This Warrant may be amended only in writing signed by the Company and the Holder, or their successors and assigns.

(c) GOVERNING LAW; VENUE; WAIVER OF JURY TRIAL. ALL QUESTIONS CONCERNING THE CONSTRUCTION, VALIDITY, ENFORCEMENT AND INTERPRETATION OF THIS WARRANT SHALL BE GOVERNED BY AND CONSTRUED AND ENFORCED IN ACCORDANCE WITH THE LAWS OF THE STATE OF NEW YORK WITHOUT REGARD TO THE PRINCIPLES OF CONFLICTS OF LAW THEREOF. EACH PARTY HEREBY IRREVOCABLY SUBMITS TO THE EXCLUSIVE JURISDICTION OF THE STATE AND FEDERAL COURTS SITTING IN THE CITY OF NEW YORK, BOROUGH OF MANHATTAN, FOR THE ADJUDICATION OF ANY DISPUTE HEREUNDER OR IN CONNECTION HERewith OR WITH ANY TRANSACTION CONTEMPLATED HEREBY OR DISCUSSED HEREIN (INCLUDING WITH RESPECT TO THE ENFORCEMENT OF ANY OF THE TRANSACTION DOCUMENTS), AND HEREBY IRREVOCABLY WAIVES, AND AGREES NOT TO ASSERT IN ANY SUIT, ACTION OR PROCEEDING, ANY CLAIM THAT IT IS NOT PERSONALLY SUBJECT TO THE JURISDICTION OF ANY SUCH COURT, THAT SUCH SUIT, ACTION OR PROCEEDING IS IMPROPER. EACH PARTY HEREBY IRREVOCABLY WAIVES PERSONAL SERVICE OF PROCESS AND CONSENTS TO PROCESS BEING SERVED IN ANY SUCH SUIT, ACTION OR PROCEEDING BY MAILING A COPY THEREOF VIA REGISTERED OR CERTIFIED MAIL OR OVERNIGHT DELIVERY (WITH EVIDENCE OF DELIVERY) TO SUCH PARTY AT THE ADDRESS IN EFFECT FOR NOTICES TO IT UNDER THIS AGREEMENT AND AGREES THAT SUCH SERVICE SHALL CONSTITUTE GOOD AND SUFFICIENT SERVICE OF PROCESS AND NOTICE THEREOF. NOTHING CONTAINED HEREIN SHALL BE DEEMED TO LIMIT IN ANY WAY ANY RIGHT TO SERVE PROCESS IN ANY MANNER PERMITTED BY LAW. THE COMPANY HEREBY WAIVES ALL RIGHTS TO A TRIAL BY JURY.

(d) The headings herein are for convenience only, do not constitute a part of this Warrant and shall not be deemed to limit or affect any of the provisions hereof.

(e) In case any one or more of the provisions of this Warrant shall be invalid or unenforceable in any respect, the validity and enforceability of the remaining terms and provisions of this Warrant shall not in any way be affected or impaired thereby, and the parties will attempt in good faith to agree upon a valid and enforceable provision which shall be a commercially reasonable substitute therefor, and upon so agreeing, shall incorporate such substitute provision in this Warrant.

(f) Except as otherwise set forth herein, prior to exercise of this Warrant, the Holder hereof shall not, by reason of by being a Holder, be entitled to any rights of a stockholder with respect to the Warrant Shares.

[REMAINDER OF PAGE INTENTIONALLY LEFT BLANK,
SIGNATURE PAGE FOLLOWS]

IN WITNESS WHEREOF, the Company has caused this Warrant to be duly executed by its authorized officer as of the date first indicated above.

ZIOPHARM ONCOLOGY, INC

By: _____

Name:

Title:

SCHEDULE 1

FORM OF EXERCISE NOTICE

(To be executed by the Holder to exercise the right to purchase shares of Common Stock under the foregoing Warrant)

To: ZIOPHARM Oncology, Inc.

(1) The undersigned is the Holder of Warrant No. _____ (the "Warrant") issued by ZIOPHARM Oncology, Inc. a Delaware corporation (the "Company"). Capitalized terms used herein and not otherwise defined herein have the respective meanings set forth in the Warrant.

(2) The undersigned hereby exercises its right to purchase _____ Warrant Shares pursuant to the Warrant.

(3) The Holder intends that payment of the Exercise Price shall be made as (check one):

Cash Exercise

"Cashless Exercise" under Section 11

(4) If the Holder has elected a Cash Exercise, the Holder shall pay the sum of \$ _____ in immediately available funds to the Company in accordance with the terms of the Warrant.

(5) Pursuant to this Exercise Notice, the Company shall deliver to the Holder _____ Warrant Shares in accordance with the terms of the Warrant.

Dated: _____, _____

Name of Holder: _____

By: _____

Name: _____

Title: _____

(Signature must conform in all respects to name of Holder as specified on the face of the Warrant)



SCHEDULE 2

ZIOPHARM ONCOLOGY, INC.

FORM OF ASSIGNMENT

[To be completed and signed only upon transfer of Warrant]

FOR VALUE RECEIVED, the undersigned hereby sells, assigns and transfers unto _____ (the "Transferee" the right represented by the within Warrant to purchase _____ shares of Common Stock of ZIOPHARM Oncology, Inc. (the "Company") to which the within Warrant relates and appoints _____ attorney to transfer said right on the books of the Company with full power of substitution in the premises. In connection therewith, the undersigned represents, warrants, covenants and agrees to and with the Company that:

- (a) the offer and sale of the Warrant contemplated hereby is being made in compliance with Section 4(1) of the United States Securities Act of 1933, as amended (the "Securities Act") or another valid exemption from the registration requirements of Section 5 of the Securities Act and in compliance with all applicable securities laws of the states of the United States;
- (b) the undersigned has not offered to sell the Warrant by any form of general solicitation or general advertising, including, but not limited to, any advertisement, article, notice or other communication published in any newspaper, magazine or similar media or broadcast over television or radio, and any seminar or meeting whose attendees have been invited by any general solicitation or general advertising;
- (c) the undersigned has read the Transferee's investment letter included herewith, and to its actual knowledge, the statements made therein are true and correct; and
- (d) the undersigned understands that the Company may condition the transfer of the Warrant contemplated hereby upon the delivery to the Company by the undersigned or the Transferee, as the case may be, of a written opinion of counsel (which opinion shall be in form, substance and scope customary for opinions of counsel in comparable transactions) to the effect that such transfer may be made without registration under the Securities Act and under applicable securities laws of the states of the United States.

Dated: _____, ____

(Signature must conform in all respects to name of holder as specified on the face of the Warrant)

Address of Transferee

In the presence of:

SECURITIES PURCHASE AGREEMENT

This Securities Purchase Agreement (this “*Agreement*”) is dated as of September 9, 2009, by and among ZIOPHARM Oncology, Inc, a Delaware corporation (the “*Company*”), and each purchaser identified on the signature pages hereto (each, including its successors and assigns, a “*Purchaser*” and collectively, the “*Purchasers*”).

RECITALS

A. The Company and each Purchaser is executing and delivering this agreement in reliance upon the exemption from securities registration afforded by Section 4(2) of the Securities Act of 1933, as amended (the “*Securities Act*”), and Rule 506 of Regulation D (“*Regulation D*”) as promulgated by the United States Securities and Exchange Commission under the Securities Act.

B. The Company intends to raise gross proceeds of up to \$10,000,000 pursuant to the issuance and sale of (i) shares of the Common Stock, par value \$0.001 per share (the “*Common Stock*”), of the Company (which shares of Common Stock and shall be collectively referred to herein as the “*Shares*”), and (ii) and warrants, in substantially the form attached hereto as Exhibit A (the “*Warrants*”).

C. Each Purchaser, severally and not jointly, wishes to purchase, and the Company wishes to sell, upon the terms and conditions stated in this Agreement, (i) that aggregate number of Shares set forth below such Purchaser’s name on the signature page of this Agreement, and (ii) Warrants to acquire up to that number of additional shares of Common Stock equal to 100.0% of the number of Shares purchased by such Purchaser (rounded up to the nearest whole share) (the shares of Common Stock issuable upon exercise of or otherwise pursuant to the Warrants, collectively, the “*Warrant Shares*”).

D. The Company has engaged Rodman & Renshaw, LLC, as its placement agent for the offering of the Shares and the Warrants on a “reasonable efforts” basis, and Rodman & Renshaw, LLC has in turn engaged Riverbank Capital Securities, Inc. and Griffin Securities, Inc. to act as sub-agents in connection with such offering.

E. Contemporaneously with the execution and delivery of this Agreement, the parties hereto are executing and delivering a Registration Rights Agreement, in the form attached hereto as Exhibit B (the “*Registration Rights Agreement*”), pursuant to which, among other things, the Company will agree to provide certain registration rights with respect to the Shares and the Warrant Shares under the Securities Act and applicable state securities laws.

NOW, THEREFORE, IN CONSIDERATION of the mutual covenants contained in this Agreement, and for other good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, the Company and the Purchasers hereby agree as follows:

ARTICLE I.
DEFINITIONS

1.1 Definitions. In addition to the terms defined elsewhere in this Agreement, for all purposes of this Agreement, the following terms shall have the meanings indicated in this Section 1.1:

“*Action*” means any action, suit, inquiry, notice of violation, proceeding (including any partial proceeding such as a deposition) or investigation pending or, to the Company’s Knowledge, threatened in writing against or affecting the Company or any of their respective properties before or by any court, arbitrator, governmental or administrative agency, regulatory authority (federal, state, county, local or foreign), stock market, stock exchange or trading facility.

“*Affiliate*” means, with respect to any Person, any other Person that, directly or indirectly through one or more intermediaries, Controls, is controlled by or is under common control with such Person, as such terms are used in and construed under Rule 144. With respect to a Purchaser, any investment fund or managed account that is managed on a discretionary basis by the same investment manager as such Purchaser will be deemed to be an Affiliate of such Purchaser.

“*Agents’ Representative*” means Rodman & Renshaw, LLC, as representative of the Placement Agents.

“*Business Day*” means a day, other than a Saturday or Sunday, on which banks in New York City are open for the general transaction of business.

“*Buy-In*” has the meaning set forth in Section 4.1(f).

“*Closing*” means the closing of the purchase and sale of the Shares and the Warrants pursuant to this Agreement.

“*Closing Date*” means the Trading Day when all of the Transaction Documents have been executed and delivered by the applicable parties thereto, and all of the conditions set forth in Sections 2.1, 2.2, 5.1 and 5.2 hereof are satisfied, or such other date as the parties may agree.

“*Commission*” means the United States Securities and Exchange Commission.

“*Common Stock*” has the meaning set forth in the Recitals, and also includes any securities into which the Common Stock may hereafter be reclassified or changed.

“*Company Counsel*” means Maslon Edelman Borman & Brand, LLP.

“*Company Deliverables*” has the meaning set forth in Section 2.2(a).

“*Company’s Knowledge*” means with respect to any statement made to the knowledge of a party, that the statement is based upon the actual knowledge of the executive officers of such party having responsibility for the matter or matters that are the subject of the statement.

“*Control*” (including the terms “controlling”, “controlled by” or “under common control with”) means the possession, direct or indirect, of the power to direct or cause the direction of the management and policies of a Person, whether through the ownership of voting securities, by contract or otherwise.

“*Disclosure Materials*” means the SEC Reports together with this Agreement and the Schedules to this Agreement (if any).

“*Effective Date*” means the date on which the initial Registration Statement required by Section 2(a) of the Registration Rights Agreement is first declared effective by the Commission.

“*Environmental Laws*” has the meaning set forth in Section 3.1(l).

“*Equity Incentive Plan*” means (i) any equity incentive, stock option or similar plan and (ii) any other agreement, arrangement, understanding or other document pursuant to which the Company is obligated to grant or issue Common Stock, including any securities or instruments convertible into, exchangeable for or otherwise entitles the holder thereof to receive Common Stock, to current or former employees in connection with their services to the Company, in each case adopted or approved by a majority of the non-employee members of the board of directors of the Company or a majority of the members of a committee of non-employee directors established.

“*Exchange Act*” means the Securities Exchange Act of 1934, as amended, or any successor statute, and the rules and regulations promulgated thereunder.

“*GAAP*” means U.S. generally accepted accounting principles, as applied by the Company on a consistent basis during the financial periods involved.

“*Intellectual Property*” has the meaning set forth in Section 3.1(r).

“*Irrevocable Transfer Agent Instructions*” means, with respect to the Company, the Irrevocable Transfer Agent Instructions, in the form of Exhibit E, executed by the Company and delivered to and acknowledged in writing by the Transfer Agent.

“*Lien*” means any lien, charge, claim, encumbrance, security interest, right of first refusal, preemptive right or other restrictions of any kind.

“*Material Adverse Effect*” means any of (i) a material and adverse effect on the legality, validity or enforceability of any Transaction Document, (ii) a material and adverse effect on the results of operations, assets, prospects, business or financial condition of the Company and subsidiaries, taken as a whole, or (iii) any material adverse impairment to the Company's ability to perform in any material respect on a timely basis its obligations under any Transaction Document.

“*Material Permits*” has the meaning set forth in Section 3.1(p).

“*New York Courts*” means the state and federal courts sitting in the City of New York, Borough of Manhattan.

“*Outside Date*” means five Trading Days following the date of this Agreement.

“*Person*” means an individual, corporation, partnership, limited liability company, trust, business trust, association, joint stock company, joint venture, sole proprietorship, unincorporated organization, governmental authority or any other form of entity not specifically listed herein.

“*Placement Agents*” means Rodman & Renshaw, LLC, Riverbank Capital Securities, Inc. and Griffin Securities, Inc.

“*Principal Trading Market*” means the Trading Market on which the Common Stock is primarily listed on and quoted for trading, which, as of the date of this Agreement and the Closing Date, shall be the NASDAQ Capital Market.

“*Purchase Price*” means the sum of (i) the most recently reported consolidated closing bid price per share of the Company’s Common Stock, as listed on the Principal Trading Market, immediately preceding the execution and delivery of this Agreement, plus (ii) \$0.125.

“*Purchaser Deliverables*” has the meaning set forth in Section 2.2(b).

“*Registration Rights Agreement*” has the meaning set forth in the Recitals.

“*Registration Statement*” means a registration statement meeting the requirements set forth in the Registration Rights Agreement and covering the resale by the Purchasers of the Registrable Securities (as defined in the Registration Rights Agreement).

“*Required Approvals*” has the meaning set forth in Section 3.1(e).

“*Rule 144*” means Rule 144 promulgated by the Commission pursuant to the Securities Act, as such Rule may be amended from time to time, or any similar rule or regulation hereafter adopted by the Commission having substantially the same effect as such Rule.

“*SEC Reports*” has the meaning set forth in Section 3.1(h).

“*Secretary’s Certificate*” has the meaning set forth in Section 2.2(a)(vii).

“*Securities*” mean the Shares, the Warrants and the Warrant Shares issued pursuant to this Agreement.

“*Securities Act*” means the Securities Act of 1933, as amended, and the rules and regulations promulgated thereunder.

“*Short Sales*” include, without limitation, all “short sales” as defined in Rule 200 promulgated under Regulation SHO under the Exchange Act, whether or not against the box, and all types of direct and indirect stock pledges, forward sale contracts, options, puts, calls, short sales, swaps, “put equivalent positions” (as defined in Rule 16a-1(h) under the Exchange Act) and similar arrangements (including on a total return basis), and sales and other transactions through non-US broker dealers or foreign regulated brokers.

“*Subscription Amount*” means with respect to each Purchaser, the aggregate amount to be paid for the Shares and the related Warrants purchased hereunder as indicated on such Purchaser’s signature page to this Agreement next to the heading “Purchase Price (Subscription Amount)”.

“*Trading Affiliate*” has the meaning set forth in Section 3.2(g).

“*Trading Day*” means (i) a day on which the Common Stock is listed or quoted and may be traded on its primary Trading Market (other than the OTC Bulletin Board), or (ii) if the Common Stock is not listed on a Trading Market (other than the OTC Bulletin Board), a day on which the Common Stock may be traded in the over-the-counter market, as reported by the OTC Bulletin Board, or (iii) if the Common Stock is not quoted on any Trading Market, a day on which the Common Stock is quoted in the over-the-counter market as reported by the National Quotation Bureau Incorporated (or any similar organization or agency succeeding to its functions of reporting prices); *provided*, that in the event that the Common Stock is not listed or quoted as set forth in (i), (ii) and (iii) hereof, then Trading Day shall mean a Business Day.

“*Trading Market*” means whichever of the New York Stock Exchange, the American Stock Exchange, the NASDAQ Global Select Market, the NASDAQ Global Market, the NASDAQ Capital Market or the OTC Bulletin Board on which the Common Stock is listed or quoted for trading on the date in question.

“*Transaction Documents*” means this Agreement, the schedules and exhibits attached hereto, the Warrants, the Registration Rights Agreement, the Irrevocable Transfer Agent Instructions and any other documents or agreements executed in connection with the transactions contemplated hereunder.

“*Transfer Agent*” means American Stock Transfer and Trust Company or any successor transfer agent for the Company.

“*Warrants*” has the meaning set forth in the Preamble to this Agreement. The Placement Agents and/or their designees are also receiving placement agent warrants as compensation for services rendered in connection with the transactions set forth herein, which warrants shall also constitute “Warrants” for all purposes hereunder.

ARTICLE II. PURCHASE AND SALE

2.1 Closing. (a) Subject to the terms and conditions set forth in this Agreement, at the Closing, the Company shall issue and sell to each Purchaser, and each Purchaser shall, severally and not jointly, purchase from the Company, such number of Shares of Common Stock equal to the quotient resulting from dividing (i) the Subscription Amount for such Purchaser, as indicated below such Purchaser’s name on the signature page of this Agreement by (ii) the Purchase Price, rounded down to the nearest whole Share. In addition, each Purchaser shall receive a Warrant to purchase a number of Warrant Shares equal to 100.0% of the number of Shares purchased by such Purchaser, as indicated below such Purchaser’s name on the signature page of this Agreement, rounded down to the nearest whole Warrant Share. The Warrants shall have an exercise price equal to 120% of the Purchase Price and shall be exercisable at any time on or prior to the fifth anniversary of the date of issuance.

(b) Each Purchaser must complete and return a duly executed, unaltered copy of this Agreement (including without limitation the completed Accredited Investor Questionnaire and the Stock Certificate Questionnaire included as Exhibits C-1 and C-2 hereto, respectively) to the Agents’ Representative. The Company and the Agents’ Representative retain complete discretion to accept or reject any subscription unless and until the Company executes a counterpart to this Agreement that includes such Purchaser’s signature. Within five Business Days after the execution and delivery of this Agreement by Purchaser and the Company, each Purchaser shall deposit the amount of readily available funds equal to such Purchaser’s Subscription Amount in a segregated escrow account (the “*Escrow Account*”) with an escrow agent designated by the Agents’ Representative (the “*Escrow Agent*”) or, if directed by the Company and the Agents’ Representative, remit such funds to an account of the Company, by wire transfer of immediately available funds pursuant to the instructions to be delivered by the Company and the Agents’ Representative prior to the Closing.

(c) The Closing shall be held at a date and time designated by the Company and the Placement Agents prior to 11:59 p.m. prevailing Eastern time on the Outside Date. The Closing shall occur at the offices of the Agents' Representative, located at 1251 Avenue of the Americas, 20th Floor, New York, New York, 10022, or at such other locations or remotely by facsimile transmission or other electronic means as the parties may mutually agree. If applicable, upon satisfaction or waiver of all conditions to the Closing, the Agents' Representative and the Company shall instruct the Escrow Agent to release the proceeds held in the Escrow Account to the Company, less fees and expenses due to the Placement Agents and the Escrow Agent. Interest, if any, that has accrued with respect to the Subscription Amount while in escrow shall also be distributed to the Company at the Closing and the Purchaser will have no right to such interest, even if there is no Closing.

(d) Unless otherwise agreed to by the Company and any Purchaser, the Company shall deliver, or cause to be delivered, a certificate or certificates, registered in such name or names as the Purchasers may designate, representing the Shares and Warrants purchased by the Purchaser hereunder as soon as practical after the Closing, and in any event within five Business Days, to the Purchaser's mailing address indicated on the Stock Certificate Questionnaire included as Exhibit C-2 hereto.

2.2 Closing Deliveries. (a) On or prior to the Closing, the Company shall issue, deliver or cause to be delivered to each Purchaser the following (the "*Company Deliverables*"):

(i) this Agreement, duly executed by the Company;

(ii) the Registration Rights Agreement, duly executed by the Company;

(iii) a Warrant, executed by the Company and registered in the name of such Purchaser as set forth on the Stock Certificate Questionnaire included as Exhibit C-2 hereto, pursuant to which such Purchaser shall have the right to acquire such number of Warrant Shares equal to 100.0% of the number of Shares issuable to such Purchaser pursuant to Section 2.2(a)(ii), rounded up to the nearest whole share, on the terms set forth therein;

(iv) a legal opinion of Company Counsel, in the form attached hereto as Exhibit D, executed by such counsel and addressed to the Purchasers and the Placement Agents;

(v) duly executed Irrevocable Transfer Agent Instructions acknowledged in writing by the Transfer Agent;

(vi) a certificate of the Secretary of the Company (the "*Secretary's Certificate*"), dated as of the Closing Date, (a) certifying the resolutions adopted by the Board of Directors of the Company approving the transactions contemplated by this Agreement and the other Transaction Documents and the issuance of the Securities, (b) certifying the current versions of the certificate of incorporation and by-laws of the Company, each as amended to date and (c) certifying as to the signatures and authority of persons signing the Transaction Documents and related documents on behalf of the Company;

(vii) the Compliance Certificate referred to in Section 5.1(h);

(viii) a certificate evidencing the formation and good standing of the Company in the State of Delaware issued by the Secretary of State (or comparable office), as of a date within 10 days of the Closing Date; and

(ix) a certified copy of the Certificate of Incorporation as certified by the Secretary of State of the State of Delaware within ten (10) days of the Closing Date.

(b) On or prior to the Closing, each Purchaser shall deliver or cause to be delivered to the Company the following (the “*Purchaser Deliverables*”):

(i) this Agreement, duly executed by such Purchaser;

(ii) its Subscription Amount, in United States dollars and in immediately available funds, in the amount set forth as the “Purchase Price” indicated below such Purchaser’s name on the applicable signature page hereto by wire transfer to an account designated in writing by the Company for such purpose, as set forth on Exhibit F attached hereto;

(iii) the Registration Rights Agreement, duly executed by such Purchaser;

(iv) a fully completed and duly executed Selling Stockholder Questionnaire in the form attached as Annex B to the Registration Rights Agreement; and

(v) a fully completed and duly executed Accredited Investor Questionnaire and Stock Certificate Questionnaire in the forms attached hereto as Exhibits C-1 and C-2, respectively.

ARTICLE III. REPRESENTATIONS AND WARRANTIES

3.1 Representations and Warranties of the Company. The Company hereby represents and warrants to the Purchasers and to the Placement Agents that, except as set forth in the Schedules delivered herewith:

(a) Subsidiaries. With the exception of ZIOPHARM Oncology Limited, a private limited company incorporated in England and Wales, the Company has no direct or indirect subsidiaries.

(b) Organization and Qualification. The Company is an entity duly incorporated or otherwise organized, validly existing and in good standing under the laws of the jurisdiction of its incorporation or organization (as applicable), with the requisite power and authority to own or lease and use its properties and assets and to carry on its business as currently conducted. The Company is not in violation of any of the provisions of its certificate of incorporation, bylaws or other organizational or charter documents. The Company is duly qualified to conduct business and is in good standing as a foreign corporation or other entity in each jurisdiction in which the nature of the business conducted or property owned by it makes such qualification necessary, except where the failure to be so qualified or in good standing, as the case may be, could not have or reasonably be expected to have, individually or in the aggregate, resulted in a Material Adverse Effect, and no Action has been instituted in any such jurisdiction revoking, limiting or curtailing or seeking to revoke, limit or curtail such power and authority or qualification.

(c) Authorization; Enforcement; Validity. The Company has the requisite corporate power and authority to enter into and to consummate the transactions contemplated by each of the Transaction Documents to which it is a party and otherwise to carry out its obligations hereunder and thereunder. The execution and delivery of each of the Transaction Documents to which it is a party by the Company and the consummation by it of the transactions contemplated hereby and thereby (including, but not limited to, the sale and delivery of the Shares and the Warrants and the subsequent issuance of the Warrant Shares upon exercise of the Warrants) have been duly authorized by all necessary corporate action on the part of the Company, and no further corporate action is required by the Company, its Board of Directors or its shareholders in connection therewith other than in connection with the Required Approvals. Each of the Transaction Documents to which it is a party has been (or upon delivery will have been) duly executed by the Company and is, or when delivered in accordance with the terms hereof, will constitute the valid and binding obligation of the Company enforceable against the Company in accordance with its terms, except as such enforceability may be limited by applicable bankruptcy, insolvency, reorganization, moratorium, liquidation or similar laws relating to, or affecting generally the enforcement of, creditors' rights and remedies or by other equitable principles of general application. There are no shareholder agreements, voting agreements, or other similar arrangements with respect to the Company's capital stock to which the Company is a party or, to the Company's Knowledge, between or among any of the Company's shareholders.

(d) No Conflicts. The execution, delivery and performance by the Company of the Transaction Documents to which it is a party and the consummation by the Company of the transactions contemplated hereby or thereby (including, without limitation, the issuance of the Shares and the reservation for issuance and issuance of the Warrant Shares) do not and will not (i) conflict with or violate any provision of the Company's certificate of incorporation, bylaws or other organizational or charter documents, (ii) conflict with, or constitute a default (or an event that with notice or lapse of time or both would become a default) under, result in the creation of any Lien upon any of the properties or assets of the Company or give to others any rights of termination, amendment, acceleration or cancellation (with or without notice, lapse of time or both) of, any agreement, credit facility, debt or other instrument (evidencing a Company debt or otherwise) to which the Company is a party or by which any property or asset of the Company is bound or affected, or (iii) subject to the Required Approvals, conflict with or result in a violation of any law, rule, regulation, order, judgment, injunction, decree or other restriction of any court or governmental authority to which the Company is subject (including federal and state securities laws and regulations and the rules and regulations, assuming the correctness of the representations and warranties made by the Purchasers herein, of any self-regulatory organization to which the Company or its securities are subject, including all applicable Trading Markets), or by which any property or asset of the Company is bound or affected, except in the case of clauses (ii) and (iii), such as would not, individually or in the aggregate, have or reasonably be expected to result in a Material Adverse Effect.

(e) Filings, Consents and Approvals. The Company is not required to obtain any consent, waiver, authorization or order of, give any notice to, or make any filing or registration with, any court or other federal, state, local or other governmental authority or other Person in connection with the execution, delivery and performance by the Company of the Transaction Documents (including the issuance of the Securities), other than (i) the filing with the Commission of one or more Registration Statements in accordance with the requirements of the Registration Rights Agreement, (ii) filings required by applicable state securities laws, (iii) the filing of a Notice of Sale of Securities on Form D with the Commission under Regulation D of the Securities Act, (iv) the filing of any requisite notices and/or application(s) to the Principal Trading Market for the issuance and sale of the Shares and the Warrants and the listing of the Shares and Warrant Shares for trading or quotation, as the case may be, thereon in the time and manner required thereby (except as disclosed on Schedule 3.1(e)), (v) the filings required in accordance with Section 4.7 of this Agreement and (vi) those that have been made or obtained prior to the date of this Agreement (collectively, the "Required Approvals").

(f) Issuance of the Securities. The Shares have been duly authorized and, when issued and paid for in accordance with the terms of the Transaction Documents, will be duly and validly issued, fully paid and nonassessable, free and clear of all Liens, other than restrictions on transfer provided for in the Transaction Documents or imposed by applicable securities laws, and shall not be subject to preemptive or similar rights of shareholders. The Warrants have been duly authorized and, when issued and paid for in accordance with the terms of the Transaction Documents, will be duly and validly issued, free and clear of all Liens, other than restrictions on transfer provided for in the Transaction Documents or imposed by applicable securities laws, and shall not be subject to preemptive or similar rights of shareholders. The Warrant Shares issuable upon exercise of the Warrants have been duly authorized and, when issued and paid for in accordance with the terms of the Transaction Documents and the Warrants, will be duly and validly issued, fully paid and nonassessable, free and clear of all Liens, other than restrictions on transfer provided for in the Transaction Documents or imposed by applicable securities laws, and shall not be subject to preemptive or similar rights of shareholders. Assuming the accuracy of the representations and warranties of the Purchasers in this Agreement, the Securities will be issued in compliance with applicable federal and state securities laws. The Company shall, so long as any of the Warrants are outstanding, take all action reasonably necessary to reserve and keep available out of its authorized and unissued capital stock, solely for the purpose of effecting the exercise of the Warrants, 100% of the Warrant Shares issuable upon exercise of the Warrants.

(g) Capitalization. The number of shares and type of all authorized, issued and outstanding capital stock, options and other securities of the Company (whether or not presently convertible into or exercisable or exchangeable for shares of capital stock of the Company) has been set forth in the SEC Reports and has changed since the date of such SEC Reports only to reflect stock option and warrant exercises that do not, individually or in the aggregate, have a material affect on the issued and outstanding capital stock, options and other securities. All of the outstanding shares of capital stock of the Company are duly authorized, validly issued, fully paid and non-assessable, have been issued in compliance in all material respects with all applicable federal and state securities laws, and none of such outstanding shares was issued in violation of any preemptive rights or similar rights to subscribe for or purchase any capital stock of the Company. Except as specified in the SEC Reports or as contemplated by the Transaction Documents: (i) no shares of the Company's capital stock are subject to preemptive rights or any other similar rights or any liens or encumbrances suffered or permitted by the Company; (ii) there are no outstanding options, warrants, scrip, rights to subscribe to, calls or commitments of any character whatsoever relating to, or securities or rights convertible into, or exercisable or exchangeable for, any shares of capital stock of the Company, or contracts, commitments, understandings or arrangements by which the Company is or may become bound to issue additional shares of capital stock of the Company or options, warrants, scrip, rights to subscribe to, calls or commitments of any character whatsoever relating to, or securities or rights convertible into, or exercisable or exchangeable for, any shares of capital stock of the Company; (iii) there are no outstanding debt securities, notes, credit agreements, credit facilities or other agreements, documents or instruments evidencing indebtedness of the Company or by which the Company is or may become bound; (iv) there are no financing statements securing obligations in any material amounts, either singly or in the aggregate, filed in connection with the Company; (v) there are no agreements or arrangements under which the Company is obligated to register the sale of any of their securities under the Securities Act (except the Registration Rights Agreement); (vi) there are no outstanding securities or instruments of the Company or which contain any redemption or similar provisions, and there are no contracts, commitments, understandings or arrangements by which the Company is or may become bound to redeem a security of the Company; (vii) except as disclosed on Schedule 3.1(g) hereto, there are no securities or instruments containing anti-dilution or similar provisions that will be triggered by the issuance of the Securities; (viii) the Company does not have any stock appreciation rights or "phantom stock" plans or agreements or any similar plan or agreement; and (ix) the Company has no liabilities or obligations required to be disclosed in the SEC Reports (as defined herein) but not so disclosed in the SEC Reports, other than those incurred in the ordinary course of the Company's businesses and which, individually or in the aggregate, do not or would not have a Material Adverse Effect.

(h) SEC Reports. The Company has filed all reports, schedules, forms, statements and other documents required to be filed by it under the Exchange Act, including pursuant to Section 13(a) or 15(d) thereof, for the two years preceding the date hereof (or such shorter period as the Company was required by law or regulation to file such material) on a timely basis or has received a valid extension of such time of filing and has filed any such SEC Reports prior to the expiration of any such extension. As of their respective dates, or to the extent corrected by a subsequent restatement, the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2008, and all other reports of the Company filed with the Commission pursuant to the Exchange Act from January 1, 2009 through the date of this Agreement (including the exhibits thereto and documents incorporated by reference therein, being collectively referred to herein as the "*SEC Reports*") complied in all material respects with the requirements of the Exchange Act, and none of the SEC Reports, when filed, contained any untrue statement of a material fact or omitted to state a material fact required to be stated therein or necessary in order to make the statements therein, in light of the circumstances under which they were made, not misleading.

(i) Financial Statements. The financial statements of the Company included in the SEC Reports comply in all material respects with applicable accounting requirements and the rules and regulations of the Commission with respect thereto as in effect at the time of filing (or to the extent corrected by a subsequent restatement). Such financial statements have been prepared in accordance with GAAP applied on a consistent basis during the periods involved, except as may be otherwise specified in such financial statements or the notes thereto and except that unaudited financial statements may not contain all footnotes required by GAAP, and fairly present in all material respects the financial position of the Company of and for the dates thereof and the results of operations and cash flows for the periods then ended, subject, in the case of unaudited statements, to normal, year-end audit adjustments. All material agreements to which the Company is a party or to which the property or assets of the Company are subject are included as part of or specifically identified in the SEC Reports.

(j) Tax Matters The Company (i) has accurately and timely prepared and filed all foreign, federal and state income and all other tax returns, reports and declarations required by any jurisdiction to which it is subject, (ii) has paid all taxes and other governmental assessments and charges that are material in amount, shown or determined to be due on such returns, reports and declarations, except those being contested in good faith, with respect to which adequate reserves have been set aside on the books of the Company and (iii) has set aside on its books provisions reasonably adequate for the payment of all taxes for periods subsequent to the periods to which such returns, reports or declarations apply, except, in the case of clauses (i) and (ii) above, where the failure to so pay or file any such tax, assessment, charge or return would not result in a Material Adverse Effect. There are no unpaid taxes in any material amount claimed to be due by the Company by the taxing authority of any jurisdiction.

(k) Material Changes. Since the date of the latest audited financial statements included within the SEC Reports and except as disclosed in a subsequent SEC Report filed prior to the date of this Agreement, (i) there have been no events, occurrences or developments that have had or that could reasonably be expected to result, either individually or in the aggregate, in a Material Adverse Effect, (ii) the Company has not incurred any liabilities (contingent or otherwise) other than (A) trade payables, accrued expenses and other liabilities incurred in the ordinary course of business consistent with past practice and (B) liabilities not required to be reflected in the Company's financial statements pursuant to GAAP or required to be disclosed in filings made with the Commission, (iii) the Company has not altered its method of accounting or the manner in which it keeps its accounting books and records, (iv) the Company has not declared or made any dividend or distribution of cash or other property to its shareholders or purchased, redeemed or made any agreements to purchase or redeem any shares of its capital stock (other than in connection with repurchases of unvested stock issued to employees of the Company) and (v) the Company has not issued any equity securities to any officer, director or Affiliate, except pursuant to an Equity Incentive Plan or executive and director corporate arrangements disclosed in the SEC Reports and (vi) there has not been any material change or amendment to, or any waiver of any material right under, any contract under which the Company or any of their assets is bound or subject. Except for the issuance of the Securities contemplated by this Agreement, no event, liability or development has occurred or exists with respect to the Company or its business, properties, operations or financial condition that would be required to be disclosed by the Company under applicable securities laws at the time this representation is made that has not been publicly disclosed at least one Trading Day prior to the date that this representation is made.

(l) Environmental Matters. To the Company's Knowledge, the Company (i) is not in violation of any statute, rule, regulation, decision or order of any governmental agency or body or any court, domestic or foreign, relating to the use, disposal or release of hazardous or toxic substances or relating to the protection or restoration of the environment or human exposure to hazardous or toxic substances (collectively, "*Environmental Laws*"), (ii) does not own or operate any real property contaminated with any substance that is in violation of any Environmental Laws, (iii) is not liable for any off-site disposal or contamination pursuant to any Environmental Laws, and (iv) is not subject to any claim relating to any Environmental Laws; which violation, contamination, liability or claim has had or could reasonably be expected to have a Material Adverse Effect, individually or in the aggregate; and there is no pending or, to the Company's Knowledge, threatened investigation that might lead to such a claim.

(m) Litigation. There is no Action which (i) adversely affects or challenges the legality, validity or enforceability of any of the Transaction Documents or the Securities or (ii) except as specifically disclosed in the SEC Reports or on Schedule 3.1(m), would, if there were an unfavorable decision, individually or in the aggregate, have or reasonably be expected to result in a Material Adverse Effect. The Company, nor, to the Company's Knowledge, any current director or officer thereof (in his or her capacity thereof), is or has been during the five-year period prior to the Closing Date the subject of any Action involving a claim of violation of or liability under federal or state securities laws or a claim of breach of fiduciary duty. There has not been and, to the Company's Knowledge, there is not pending or contemplated, any investigation by the Commission involving the Company or, to the Company's Knowledge, any current or former director or officer of the Company (in his or her capacity as such). The Commission has not issued any stop order or other order suspending the effectiveness of any registration statement filed by the Company under the Exchange Act or the Securities Act.

(n) Employment Matters. No material labor dispute exists or, to the Company's Knowledge, is imminent with respect to any of the employees of the Company which could reasonably be expected to result in a Material Adverse Effect. None of the Company's employees is a member of a union that relates to such employee's relationship with the Company, the Company is not a party to a collective bargaining agreement, and the Company believes that its relationship with its employees is satisfactory. No executive officer, to the Company's Knowledge, is, or is now expected to be, in violation of any material term of any employment contract, confidentiality, disclosure or proprietary information agreement or non-competition agreement, or any other contract or agreement or any restrictive covenant, and the continued employment of each such executive officer does not subject the Company to any liability with respect to any of the foregoing matters. To the Company's Knowledge, the Company is in compliance with all U.S. federal, state, local and foreign laws and regulations relating to employment and employment practices, terms and conditions of employment and wages and hours, except where the failure to be in compliance could not, individually or in the aggregate, reasonably be expected to have a Material Adverse Effect.

(o) Compliance. The Company is not (i) in default under or in violation of (and no event has occurred that has not been waived that, with notice or lapse of time or both, would result in a default by the Company), nor has the Company received notice of a claim that it is in default under or that it is in violation of, any indenture, loan or credit agreement or any other agreement or instrument to which it is a party or by which it or any of its properties is bound (whether or not such default or violation has been waived), (ii) in violation of any order of any court, arbitrator or governmental body having jurisdiction over the Company or its properties or assets, or (iii) in violation of, or in receipt of notice that it is in violation of, any statute, rule or regulation of any governmental authority applicable to the Company, except in each case as could not, individually or in the aggregate, have or reasonably be expected to result in a Material Adverse Effect.

(p) Regulatory Permits. The Company possesses all certificates, authorizations and permits issued by the appropriate federal, state, local or foreign regulatory authorities necessary to conduct its business as described in the SEC Reports, except where the failure to possess such permits, individually or in the aggregate, has not and could not reasonably be expected to result in a Material Adverse Effect (“*Material Permits*”), and the Company has not received any notice of proceedings relating to the revocation or modification of any such Material Permits.

(q) Title to Assets. Except for property that is specifically the subject of, and covered by, other representations and warranties as to ownership or title contained herein, the Company has good and marketable title in fee simple to all real property owned by it that is material to its business and good and marketable title in all personal property owned by it that is material to its business, in each case free and clear of all Liens, except for Liens as do not materially affect the value of such property and do not materially interfere with the use made and proposed to be made of such property by the Company and Liens for the payment of federal, state or other taxes, the payment of which is neither delinquent nor subject to penalties. Any real property and facilities held under lease by the Company are held by it under valid, subsisting and enforceable leases of which the Company is in material compliance.

(r) Intellectual Property. The Company owns, possesses, licenses or has other rights to use all foreign and domestic patents, patent applications, trade and service marks, trade and service mark registrations, trade names, copyrights, licenses, inventions, trade secrets, technology, Internet domain names, know-how and other intellectual property (collectively, the “*Intellectual Property*”) necessary for the conduct of its business as now conducted or as proposed to be conducted. Except as set forth in the SEC Reports and except where such violations or infringements would not reasonably be expected to result, either individually or in the aggregate, in a Material Adverse Effect, (a) to the Company’s Knowledge, there are no rights of third parties to any such Intellectual Property; (b) to the Company’s Knowledge, there is no infringement by third parties of any such Intellectual Property; (c) there is no pending or, to the Company’s Knowledge, threatened Action challenging the Company’s rights in or to any such Intellectual Property, and the Company is unaware of any facts which would form a reasonable basis for any such Action; (d) there is no pending or, to the Company’s Knowledge, threatened Action challenging the validity or scope of any such Intellectual Property; and (e) there is no pending or, to the Company’s Knowledge, threatened Action that the Company infringes or otherwise violates any patent, trademark, copyright, trade secret or other proprietary rights of others, and the Company is unaware of any other fact which would form a reasonable basis for any such Action.

(s) Insurance. The Company is insured by insurers of recognized financial responsibility against such losses and risks and in such amounts as are prudent and customary in the businesses and location in which the Company is engaged. The Company does not have any knowledge that it will be unable to renew its existing insurance coverage for the Company as and when such coverage expires or to obtain similar coverage from similar insurers as may be necessary to continue its business without a significant increase in cost.

(t) Transactions With Affiliates and Employees. Except as set forth in the SEC Reports or reported on a Form 3, 4 or 5 filed with the Commission, in either case at least ten days prior to the date hereof, and except as disclosed on Schedule 3.1(t), none of the executive officers, directors or employees of the Company is presently a party to any transaction with the Company (other than for ordinary course services as employees, officers or directors), including any contract, agreement or other arrangement providing for the furnishing of services to or by, providing for rental of real or personal property to or from, or otherwise requiring payments to or from any such executive officer, director or employee or, to the Company’s Knowledge, any corporation, partnership, trust or other entity in which any such officer, director, or employee has a substantial interest or is an officer, director, trustee or partner.

(u) Internal Accounting Controls. The Company maintains a system of internal accounting controls sufficient to provide reasonable assurance that (i) transactions are executed in accordance with management's general or specific authorizations, (ii) transactions are recorded as necessary to permit preparation of financial statements in conformity with GAAP and to maintain asset accountability, (iii) access to assets is permitted only in accordance with management's general or specific authorization, and (iv) the recorded accountability for assets is compared with the existing assets at reasonable intervals and appropriate action is taken with respect to any differences.

(v) Sarbanes-Oxley; Disclosure Controls. The Company is in compliance in all material respects with all of the provisions of the Sarbanes-Oxley Act of 2002 which are applicable to it as of the Closing Date. The Company maintains disclosure controls and procedures (as such term is defined in Rule 13a-15(e) under the Exchange Act) that are effective in ensuring that information required to be disclosed by the Company in the reports that it files or submits under the Exchange Act is recorded, processed, summarized and reported, within the time periods specified in the rules and forms of the Commission, including, without limitation, controls and procedures designed to ensure that information required to be disclosed by the Company in the reports that it files or submits under the Exchange Act is accumulated and communicated to the Company's management, including its principal executive officer or officers and its principal financial officer or officers, as appropriate, to allow timely decisions regarding required disclosure.

(w) Certain Fees. No person or entity will have, as a result of the transactions contemplated by this Agreement, any valid right, interest or claim against or upon the Company or a Purchaser for any commission, fee or other compensation pursuant to any agreement, arrangement or understanding entered into by or on behalf of the Company, other than the Placement Agents with respect to the offer and sale of the Securities. Such Placement Agent fees and expenses are described on Schedule 3.1(w) hereto and are being paid by the Company. The Company shall pay, and hold each Purchaser harmless against, any liability, loss or expense (including, without limitation, attorneys' fees and out-of-pocket expenses) arising in connection with any such right, interest or claim.

(x) Private Placement. Assuming the accuracy of the Purchasers' representations and warranties set forth in Section 3.2 of this Agreement, no registration under the Securities Act is required for the offer and sale of the Securities by the Company to the Purchasers under the Transaction Documents. Other than each of the Purchasers (with respect to the Shares and the Warrant Shares), no Person has any right to cause the Company to effect the registration under the Securities Act of any securities of the Company other than those securities which are currently registered on an effective registration statement on file with the Commission.

(y) No Directed Selling Efforts or General Solicitation. Neither the Company, nor any of its Affiliates, nor any Person acting on its or their behalf has conducted any "general solicitation" or "general advertising" (as those terms are used in Regulation D) in connection with the offer or sale of any of the Securities.

(z) No Integrated Offering. Assuming the accuracy of the Purchasers' representations and warranties set forth in Section 3.2, neither the Company, its Affiliates, nor any Person acting on its or their behalf has, directly or indirectly, at any time within the past six months, made any offers or sales of any Company security or solicited any offers to buy any security under circumstances that would (i) eliminate the availability of the exemption from registration under Regulation D under the Securities Act in connection with the offer and sale by the Company of the Securities as contemplated hereby or (ii) cause the offering of the Securities pursuant to the Transaction Documents to be integrated with prior offerings by the Company for purposes of any applicable law, regulation or shareholder approval provisions, including, without limitation, under the rules and regulations of any Trading Market on which any of the securities of the Company are listed or designated.

(aa) Listing and Maintenance Requirements. The Company's Common Stock is registered pursuant to Section 12(b) of the Exchange Act, and the Company has taken no action designed to terminate the registration of the Common Stock under the Exchange Act nor has the Company received any notification that the Commission is contemplating terminating such registration. Except as specified in the SEC Reports, the Company has not, in the two years preceding the date hereof, received written notice from any Trading Market on which the Common Stock is or has been listed or quoted to the effect that the Company is not in compliance with the listing or maintenance requirements of such Trading Market. The Company is, and has no reason to believe that following the Closing it will not in the foreseeable future continue to be, in compliance in all material respects with the listing and maintenance requirements for continued trading of the Common Stock on the Principal Trading Market.

(bb) Investment Company. The Company is not required to be registered as, and is not an Affiliate of, and immediately following the Closing will not be required to register as, an "investment company" within the meaning of the Investment Company Act of 1940, as amended.

(cc) Questionable Payments. Neither, the Company, nor, to the Company's Knowledge, any directors, executive officers, employees, agents or other Persons acting on behalf of the Company has, in the course of its actions for, or on behalf of, the Company: (a) directly or indirectly, used any corporate funds for unlawful contributions, gifts, entertainment or other unlawful expenses relating to foreign or domestic political activity; (b) made any direct or indirect unlawful payments to any foreign or domestic governmental officials or employees or to any foreign or domestic political parties or campaigns from corporate funds; (c) violated in any material respect any provision of the Foreign Corrupt Practices Act of 1977, as amended, or (d) made any other unlawful bribe, rebate, payoff, influence payment, kickback or other unlawful payment to any foreign or domestic government official or employee.

(dd) Application of Takeover Protections; Rights Agreements. The Company and its board of directors have taken all necessary action, if any, in order to render inapplicable any control share acquisition, business combination, poison pill (including any distribution under a rights agreement) or other similar anti-takeover provision under the Company's charter documents or the laws of its state of incorporation that is or could reasonably be expected to become applicable to any of the Purchasers as a result of the Purchasers and the Company fulfilling their obligations or exercising their rights under the Transaction Documents, including, without limitation, the Company's issuance of the Securities and the Purchasers' ownership of the Securities. The Company has not adopted a stockholder rights plan or similar arrangement relating to accumulations of beneficial ownership of Common Stock or a change in control of the Company.

(ee) Disclosure. The Company confirms that neither it nor any of its executive officers or directors nor any other Person acting on its or their behalf has provided, and it has not authorized the Placement Agents to provide, any Purchaser with information that it believes constitutes or could reasonably be expected to constitute material, non-public information except insofar as the existence, provisions and terms of the Transaction Documents and the proposed transactions hereunder may constitute such information, all of which will be disclosed by the Company in the Press Release as contemplated by Section 4.7 hereof. The Company understands and confirms that the Purchasers will rely on the foregoing representations in effecting transactions in securities of the Company. All disclosure provided to the Purchasers regarding the Company, its business and the transactions contemplated hereby furnished by the Company or authorized by the Company and furnished by the Placement Agents on behalf of the Company (including the Company's representations and warranties set forth in this Agreement) are true and correct in all material respects and do not contain any untrue statement of a material fact or omit to state any material fact necessary in order to make the statements made therein, in light of the circumstances under which they were made, not misleading. To the Company's Knowledge, no event or circumstance has occurred or information exists with respect to the Company or its business, properties, operations or financial conditions, which, under applicable law, rule or regulation, requires public disclosure or announcement by the Company but which has not been so publicly announced or disclosed, except for the announcement of this Agreement and related transactions.

(ff) Off Balance Sheet Arrangements. There is no transaction, arrangement, or other relationship between the Company and an unconsolidated or other off balance sheet entity that is required to be disclosed by the Company in its Exchange Act filings and is not so disclosed or that otherwise would be reasonably likely to have a Material Adverse Effect.

(gg) Consultation with Auditors. The Company has consulted its independent auditors concerning the accounting treatment of the transactions contemplated by the Transaction Documents and in connection therewith has furnished such auditors complete copies of the Transaction Documents. The Company intends to account for the net proceeds raised from the financing which is the subject of this Agreement as equity in its financial statements.

(hh) No Additional Agreements. The Company does not have any agreement or understanding with any Purchaser with respect to the transactions contemplated by the Transaction Documents other than as specified in the Transaction Documents.

(ii) Use of Form S-3. The Company meets the registration and transaction requirements for use of Form S-3 for the registration of the Shares and the Warrant Shares for resale by the Purchasers, subject to applicable limitations on the amount of securities that may be registered for resale without being deemed a primary offering by or on behalf of the Company under applicable guidelines of the Commission.

(jj) FDA Matters. The properties, business and operations of the Company have been and are being conducted in accordance with all applicable laws, rules and regulations of the U.S. Food and Drug Administration (the "FDA") including without limitation under the U.S. Food, Drug and Cosmetic Act, as amended, and the regulations thereunder ("FDCA") and other federal or state laws, rules and regulations relating to registration, investigational use, premarket clearance, licensure, or application approval, good manufacturing practices, good laboratory practices, good clinical practices, product listing, quotas, labeling, advertising, record keeping and filing of reports, except where the failure to be in compliance would not reasonably be expected to have a Material Adverse Effect. There is no pending, completed or, to the Company's Knowledge, threatened, action (including any lawsuit, arbitration, or legal or administrative or regulatory proceeding, charge, complaint, or investigation) against the Company or any of its subsidiaries, and none of the Company or any of its subsidiaries has received any notice, warning letter or other communication from the FDA or any other governmental entity, which (i) contests the premarket clearance, licensure, registration, or approval of, the uses of, the distribution of, the manufacturing or packaging of, the testing of, the sale of, or the labeling and promotion of any of the Company's product candidates subject to the jurisdiction of the FDA that is manufactured, packaged, labeled, tested, distributed, sold and/or marketed by the Company or any of its Subsidiaries (each such product candidate, a "Pharmaceutical Product"), (ii) withdraws its approval of, requests the recall, suspension, or seizure of, or withdraws or orders the withdrawal of advertising or sales promotional materials relating to, any Pharmaceutical Product, (iii) imposes a clinical hold on any clinical investigation by the Company or any of its subsidiaries, (iv) enjoins production at any facility of the Company or any of its subsidiaries, (v) enters or proposes to enter into a consent decree of permanent injunction with the Company or any of its subsidiaries, or (vi) otherwise alleges any violation of any laws, rules or regulations by the Company or any of its subsidiaries, and which, either individually or in the aggregate, would have or reasonably be expected to have a Material Adverse Effect. The Company has not been informed by the FDA that the FDA will prohibit the marketing, sale, license or use in the United States of any product proposed to be developed, produced or marketed by the Company nor has the FDA expressed any concern as to approving or clearing for marketing any product being developed or proposed to be developed by the Company.

(kk) **Stock Options.** With respect to stock options issued pursuant to the Company's Equity Incentive Plan(s), (i) each stock option designated by the Company at the time of grant as an "incentive stock option" under Section 422 of the Code so qualifies, (ii) except as disclosed in the SEC Reports, including the financial statements included therein, each grant of a stock option was duly authorized no later than the date on which the grant of such stock option was by its terms to be effective (the "*Grant Date*") by all necessary corporate action, including, as applicable, approval by the board of directors of the Company (or a duly constituted and authorized committee thereof) and any required stockholder approval by the necessary number of votes or written consents, (iii) each such grant was made in accordance with the material terms of an Equity Incentive Plan, the Securities Act and all other applicable laws and regulatory rules or requirements, and (iv) each such grant was or has now been properly accounted for in accordance with GAAP in the financial statements (including the related notes) of the Company and disclosed in the Company's filings with the Commission in accordance with the Exchange Act and all other applicable laws, except, in the cases of clauses (i), (ii), (iii) and (iv), for any such failure, violation or default that, either individually or in the aggregate, would not reasonably be expected to have a Material Adverse Effect.

3.2 **Representations and Warranties of the Purchasers.** Each Purchaser hereby, for itself and for no other Purchaser, represents and warrants as of the date hereof and as of the Closing Date to the Company and the Placement Agents as follows:

(a) **Organization; Authority.** If such Purchaser is not a natural person, (i) such Purchaser is an entity duly organized, validly existing and in good standing under the laws of the jurisdiction of its organization with the requisite corporate or partnership power and authority to enter into and to consummate the transactions contemplated by the applicable Transaction Documents and otherwise to carry out its obligations hereunder and thereunder, and (ii) the execution, delivery and performance by such Purchaser of the transactions contemplated by this Agreement have been duly authorized by all necessary corporate or, if such Purchaser is not a corporation, such partnership, limited liability company or other applicable like action, on the part of such Purchaser. Each of this Agreement, the Warrant and the Registration Rights Agreement has been duly executed by such Purchaser, and when delivered by such Purchaser in accordance with the terms hereof, will constitute the valid and legally binding obligation of such Purchaser, enforceable against it in accordance with its terms, except as such enforceability may be limited by applicable bankruptcy, insolvency, reorganization, moratorium, liquidation or similar laws relating to, or affecting generally the enforcement of, creditors' rights and remedies or by other equitable principles of general application.

(b) Investment Intent. Such Purchaser understands that the Securities are “restricted securities” and have not been registered under the Securities Act or any applicable state securities law and is acquiring the Securities and, upon exercise of the Warrants, will acquire the Warrant Shares issuable upon exercise thereof as principal for its own account and not with a view to, or for distributing or reselling such Securities or any part thereof in violation of the Securities Act or any applicable state securities laws, *provided, however*, that by making the representations herein, such Purchaser does not agree to hold any of the Securities for any minimum period of time and reserves the right, subject to the provisions of this Agreement and the Registration Rights Agreement, at all times to sell or otherwise dispose of all or any part of such Securities or Warrant Shares pursuant to an effective registration statement under the Securities Act or under an exemption from such registration and in compliance with applicable federal and state securities laws, subject to the limitations set forth herein or in such securities laws. Such Purchaser is acquiring the Securities hereunder in the ordinary course of its business. Such Purchaser does not presently have any agreement, plan or understanding, directly or indirectly, with any Person to distribute or effect any distribution of any of the Securities (or any securities which are derivatives thereof) to or through any person or entity. Such Purchaser is not a registered broker-dealer under Section 15 of the Exchange Act or an entity engaged in a business that would require it to be so registered as a broker-dealer.

(c) Purchaser Status. At the time such Purchaser was offered the Securities, it was, and at the date hereof it is, and on each date on which it exercises the Warrants it will be, an “accredited investor” as defined in Rule 501(a) under the Securities Act.

(d) General Solicitation. Such Purchaser is not purchasing the Securities as a result of any advertisement, article, notice or other communication regarding the Securities published in any newspaper, magazine or similar media or broadcast over television or radio or presented at any seminar or any other general advertisement. Such Purchaser represents that it has a pre-existing relationship with one of the Placement Agents or with the Company.

(e) Experience of Such Purchaser. Such Purchaser, either alone or together with its representatives, has such knowledge, sophistication and experience in business and financial matters so as to be capable of evaluating the merits and risks of the prospective investment in the Securities, and has so evaluated the merits and risks of such investment. Such Purchaser is able to bear the economic risk of an investment in the Securities and, at the present time, is able to afford a complete loss of such investment.

(f) Access to Information. Such Purchaser acknowledges that it has had the opportunity to review the Disclosure Materials and has been afforded (i) the opportunity to ask such questions as it has deemed necessary of, and to receive answers from, representatives of the Company concerning the terms and conditions of the offering of the Securities and the merits and risks of investing in the Securities; (ii) access to information about the Company and its financial condition, results of operations, business, properties, management and prospects sufficient to enable it to evaluate its investment; and (iii) the opportunity to obtain such additional information that the Company possesses or can acquire without unreasonable effort or expense that is necessary to make an informed investment decision with respect to the investment. Neither such inquiries nor any other investigation conducted by or on behalf of such Purchaser or its representatives or counsel shall modify, amend or affect such Purchaser's right to rely on the Company's representations and warranties contained in the Transaction Documents.

(g) Certain Trading Activities. Other than with respect to the transactions contemplated herein, since the earlier to occur of (1) the time that such Purchaser was first contacted by the Company, the Placement Agents or any other Person regarding the transactions contemplated hereby and (2) the tenth (10th) day prior to the date of this Agreement, neither the Purchaser nor any Affiliate of such Purchaser which (x) had knowledge of the transactions contemplated hereby, (y) has or shares discretion relating to such Purchaser's investments or trading or information concerning such Purchaser's investments, including in respect of the Securities, and (z) is subject to such Purchaser's review or input concerning such Affiliate's investments or trading (collectively, "*Trading Affiliates*") has directly or indirectly, nor has any Person acting on behalf of or pursuant to any understanding with such Purchaser or Trading Affiliate, effected or agreed to effect any transactions in the securities of the Company (including, without limitation, any Short Sales involving the Company's securities). Notwithstanding the foregoing, in the case of a Purchaser and/or Trading Affiliate that is, individually or collectively, a multi-managed investment vehicle whereby separate portfolio managers manage separate portions of such Purchaser's or Trading Affiliate's assets and the portfolio managers have no direct knowledge of the investment decisions made by the portfolio managers managing other portions of such Purchaser's or Trading Affiliate's assets, the representation set forth above shall apply only with respect to the portion of assets managed by the portfolio manager that have knowledge about the financing transaction contemplated by this Agreement. Other than to other Persons party to this Agreement, such Purchaser has maintained the confidentiality of all disclosures made to it in connection with this transaction (including the existence and terms of this transaction). Notwithstanding the foregoing, no Purchaser makes any representation, warranty or covenant hereby that it will not engage in Short Sales in the securities of the Company after the time that the transactions contemplated by this Agreement are first publicly announced as described in Section 4.7, subject to the restrictions set forth in Section 4.10.

(h) Brokers and Finders. Other than the Company's obligations to the Placement Agents, no Person will have, as a result of the transactions contemplated by this Agreement, any valid right, interest or claim against or upon the Company or any Purchaser for any commission, fee or other compensation pursuant to any agreement, arrangement or understanding entered into by or on behalf of the Purchaser.

(i) Limited Ownership. The purchase by such Purchaser of the Securities issuable to it at the Closing will not result in such Purchaser (individually or together with other Person with whom such Purchaser has identified, or will have identified, itself as part of a "group" in a public filing made with the Commission involving the Company's securities) acquiring, or obtaining the right to acquire, in excess of 19.99% of the outstanding shares of Common Stock or the voting power of the Company on a post transaction basis that assumes that the Closing shall have occurred. Such Purchaser does not presently intend to, alone or together with others, make a public filing with the Commission to disclose that it has (or that it together with such other Persons have) acquired, or obtained the right to acquire, as a result of the Closing (when added to any other securities of the Company that it or they then own or have the right to acquire), in excess of 19.99% of the outstanding shares of Common Stock or the voting power of the Company on a post transaction basis that assumes that the Closing shall have occurred.

(j) Independent Investment Decision. Such Purchaser has independently evaluated the merits of its decision to purchase Securities pursuant to the Transaction Documents, and such Purchaser confirms that it has not relied on the advice of any other Purchaser's business and/or legal counsel in making such decision. Such Purchaser understands that nothing in this Agreement or any other materials presented by or on behalf of the Company to the Purchaser in connection with the purchase of the Securities constitutes legal, tax or investment advice. Such Purchaser has consulted such legal, tax and investment advisors as it, in its sole discretion, has deemed necessary or appropriate in connection with its purchase of the Securities. Such Purchaser understands that the Placement Agents have acted solely as the agent of the Company in this placement of the Securities and such Purchaser has not relied on the business or legal advice of the Placement Agents or any of their agents, counsel or Affiliates in making its investment decision hereunder, and confirms that none of such Persons has made any representations or warranties to such Purchaser in connection with the transactions contemplated by the Transaction Documents.

(k) Reliance on Exemptions. Such Purchaser understands that the Securities being offered and sold to it in reliance on specific exemptions from the registration requirements of United States federal and state securities laws and that the Company is relying in part upon the truth and accuracy of, and such Purchaser's compliance with, the representations, warranties, agreements, acknowledgements and understandings of such Purchaser set forth herein in order to determine the availability of such exemptions and the eligibility of such Purchaser to acquire the Securities.

(l) No Governmental Review. Such Purchaser understands that no United States federal or state agency or any other government or governmental agency has passed on or made any recommendation or endorsement of the Securities or the fairness or suitability of the investment in the Securities nor have such authorities passed upon or endorsed the merits of the offering of the Securities.

(m) Residency; Foreign Securities Laws. Unless such Purchaser resides, in the case of individuals, or is headquartered or formed, in the case of entities, in the United States, such Purchaser acknowledges that the Company will not issue any Securities in compliance with the laws of any jurisdiction outside of the United States and the Company makes no representation or warranty that any Securities issued outside of the United States have been offered or sold in compliance with the laws of the jurisdiction into which such Shares were issued. Any Purchaser not a resident of or formed in the United States warrants to the Company that no filing is required by the Company with any governmental authority in such Purchaser's jurisdiction in connection with the transactions contemplated hereby. If such Purchaser is domiciled or was formed outside of the United States, such Purchaser has satisfied itself as to the full observance of the laws of its jurisdiction in connection with the acquisition of the Securities or any use of this Agreement, including (i) the legal requirements within its jurisdiction for the purchase of the Securities, (ii) any foreign exchange restrictions applicable to such purchase, (iii) any governmental or other consents that may need to be obtained and (iv) the income tax and other tax consequences, if any, that may be relevant to the purchase, holding, redemption, sale or transfer of the Securities. If such Purchaser is domiciled or was formed outside the United States, such Purchaser's acquisition of and payment for, and its continued ownership of the Securities, will not violate any applicable securities or other laws of his, her or its jurisdiction.

(n) Acknowledgements Regarding Placement Agents. Such Purchaser acknowledges that the Placement Agents are acting as the exclusive placement agents on a "reasonable efforts" basis for the Securities being offered hereby and will be compensated by the Company for acting in such capacity. Such Purchaser further acknowledges that the Placement Agents and their respective directors, officers, employees, representatives and controlling persons have no responsibility for making any independent investigation of the SEC Reports and make no representation or warranty to the Purchaser, express or implied, with respect to the Company or the Securities, or the accuracy, completeness or adequacy of the SEC Reports or any other publicly available information, nor shall any of the foregoing persons be liable for any loss or damages of any kind resulting from the use of the information contained therein or otherwise supplied to the Purchaser. In addition, such Purchaser acknowledges that it has not relied on information provided by any of such persons but has conducted its own investigation.

The Company acknowledges and agrees that no Purchaser has made or makes any representations or warranties with respect to the transactions contemplated hereby other than those specifically set forth in this Section 3.2.

ARTICLE IV.
OTHER AGREEMENTS OF THE PARTIES

4.1 (a) Compliance with Laws. Notwithstanding any other provision of this Article IV, each Purchaser covenants that the securities may be disposed of only pursuant to an effective registration statement under, and in compliance with the requirements of, the Securities Act, or pursuant to an available exemption from, or in a transaction not subject to, the registration requirements of the Securities Act, and in compliance with any applicable state and federal securities laws. In connection with any transfer of the Securities other than (i) pursuant to an effective registration statement, (ii) to the Company, (iii) to an Affiliate of a Purchaser, (iv) pursuant to Rule 144 (*provided* that the Purchaser provides the Company with reasonable assurances (in the form of seller and broker representation letters or an opinion of counsel, as appropriate,) that the securities may be sold pursuant to such rule) or Rule 144A, or (v) in connection with a bona fide pledge as contemplated in Section 4.1(b), except as otherwise provided herein, the Company may require the transferor thereof to provide to the Company an opinion of counsel selected by the transferor and reasonably acceptable to the Company, the form and substance of which opinion shall be reasonably satisfactory to the Company, to the effect that such transfer does not require registration of such transferred Securities under the Securities Act. As a condition of transfer, any such transferee shall agree in writing to be bound by the terms of this Agreement and shall have the rights of a Purchaser under this Agreement and the Registration Rights Agreement.

(b) Legends. Certificates evidencing the Securities shall bear any legend as required by the “blue sky” laws of any applicable state and a restrictive legend in substantially the following form, until such time as they are not required under Section 4.1(c):

[NEITHER THESE SECURITIES NOR THE SECURITIES ISSUABLE UPON EXERCISE OF THESE SECURITIES HAVE BEEN REGISTERED] [THESE SECURITIES HAVE NOT BEEN REGISTERED] WITH THE SECURITIES AND EXCHANGE COMMISSION OR THE SECURITIES COMMISSION OF ANY STATE IN RELIANCE UPON AN EXEMPTION FROM REGISTRATION UNDER THE SECURITIES ACT OF 1933, AS AMENDED (THE “SECURITIES ACT”), AND, ACCORDINGLY, MAY NOT BE OFFERED OR SOLD EXCEPT PURSUANT TO AN EFFECTIVE REGISTRATION STATEMENT UNDER THE SECURITIES ACT OR PURSUANT TO AN AVAILABLE EXEMPTION FROM, OR IN A TRANSACTION NOT SUBJECT TO, THE REGISTRATION REQUIREMENTS OF THE SECURITIES ACT AND IN ACCORDANCE WITH APPLICABLE STATE SECURITIES LAWS OR BLUE SKY LAWS AS EVIDENCED BY A LEGAL OPINION OF COUNSEL REASONABLY SATISFACTORY TO THE COMPANY.

The Company acknowledges and agrees that a Purchaser may from time to time pledge, and/or grant a security interest in, some or all of the legended Securities in connection with applicable securities laws, pursuant to a bona fide margin agreement in compliance with a bona fide margin loan. Such a pledge would not be subject to approval or consent of the Company and no legal opinion of legal counsel to the pledgee, secured party or pledgor shall be required in connection with the pledge, but such legal opinion shall be required in connection with a subsequent transfer or foreclosure following default by the Purchaser's transferee of the pledge. No notice shall be required of such pledge, but Purchaser's transferee shall promptly notify the Company of any such subsequent transfer or foreclosure. Each Purchaser acknowledges that the Company shall not be responsible for any pledges relating to, or the grant of any security interest in, any of the Securities or for any agreement, understanding or arrangement between any Purchaser and its pledgee or secured party. At the appropriate Purchaser's expense, the Company will execute and deliver such reasonable documentation as a pledgee or secured party of Shares may reasonably request in connection with a pledge or transfer of the Shares, including the preparation and filing of any required prospectus supplement under Rule 424(b)(3) of the Securities Act or other applicable provision of the Securities Act to appropriately amend the list of Selling Stockholders thereunder. Each Purchaser acknowledges and agrees that, except as otherwise provided in Section 4.1(c), any Shares subject to a pledge or security interest as contemplated by this Section 4.1(b) shall continue to bear the legend set forth in this Section 4.1(b) and be subject to the restrictions on transfer set forth in Section 4.1(a).

(c) **Removal of Legends.** The legend set forth in Section 4.1(b) above shall be removed and the Company shall issue a certificate without such legend to the holder of the Securities upon which it is stamped or issue to such holder by electronic delivery at the applicable balance account at The Depository Trust Company (“DTC”), if (i) such Securities are registered for resale under the Securities Act, (ii) such Securities are sold or transferred pursuant to Rule 144 (assuming the transferor is not an Affiliate of the Company) or Rule 144A, or (iii) such Securities are eligible for sale under Rule 144 without application of the requirements of paragraph (c)(i) thereof. The Company shall cause its counsel to issue the legal opinion referred to in the Irrevocable Transfer Agent Instructions to the Company’s transfer agent on the Effective Date. Any fees (with respect to the Transfer Agent, counsel to the Company or otherwise) associated with the issuance of such opinion or the removal of such legend shall be borne by the Company. If any portion of the Warrant is exercised at a time when there is an effective registration statement to cover the resale of the Warrant Shares, or if such Warrant Shares may be sold under Rule 144 without application of the requirements of paragraph (c)(i) thereof, then such Warrant Shares shall be issued free of all legends. Following the Effective Date, or at such earlier time as a legend is no longer required for certain Securities, the Company will no later than three (3) Trading Days following the delivery by a Purchaser to the Company or the Transfer Agent (with notice to the Company) of (i) a legended certificate representing such Shares or Warrant Shares (endorsed or with stock powers attached, signatures guaranteed, and otherwise in form necessary to affect the reissuance and/or transfer) or (ii) an Exercise Notice in the manner stated in the Warrants to effect the exercise of such Warrant in accordance with its terms and an opinion of counsel to the extent required by Section 4.1(a), deliver or cause to be delivered to such Purchaser a certificate representing such Securities that is free from all restrictive and other legends. The Company may not make any notation on its records or give instructions to the Transfer Agent that enlarge the restrictions on transfer set forth in this Section.

(d) **Irrevocable Transfer Agent Instructions.** The Company shall issue irrevocable instructions to its transfer agent, and any subsequent transfer agent, to issue certificates or credit shares to the applicable balance accounts at DTC, registered in the name of each Purchaser or its respective nominee(s), for the Shares and the Warrant Shares in such amounts as specified from time to time by each Purchaser to the Company in the form of Exhibit E attached hereto (the “Irrevocable Transfer Agent Instructions”).

(e) **Acknowledgement.** Each Purchaser hereunder acknowledges its primary responsibilities under the Securities Act and accordingly will not sell any of the Securities or any interest therein without complying with the requirements of the Securities Act. While a Registration Statement remains effective, each Purchaser hereunder may sell the shares in accordance with the plan of distribution contained in such Registration Statement and if it does so it will comply therewith and with the related prospectus delivery requirements unless an exemption therefrom is available provided the Company delivers notice to such Holder in writing that the conditions set forth in Rule 172 of the Securities Act are not met and that, accordingly, such Holder is obligated to deliver prospectuses upon such sales. Each Purchaser, severally and not jointly with the other Purchasers, agrees that if it is notified by the Company at any time after the date any legend is removed pursuant to Section 4.1(c) hereof that no Registration Statement is effective or that the prospectus included in any such Registration Statement no longer complies with the requirements of Section 10 of the Securities Act, the Purchaser will refrain from selling such Shares and Warrant Shares until such time as the Purchaser is notified by the Company that a Registration Statement is effective or such prospectus is compliant with Section 10 of the Exchange Act, unless such Purchaser is able to, and does, sell such Shares or Warrant Shares pursuant to an available exemption from the registration requirements of Section 5 of the Securities Act. Each Purchaser, severally and not jointly with the other Purchasers, agrees to indemnify the Company for any damages or losses resulting to the Company from the Purchaser’s breach of its covenants set forth in the preceding sentence.

(f) **Buy-In.** If (i) the Company shall fail to deliver or cause to be delivered to a holder unlegended certificates within three (3) Trading Days of receipt of documents necessary for the removal of the legends set forth above (the “*Deadline Date*”), and if (ii) prior to the time such unlegended certificate is received by such holder, such holder, or any third party on behalf of such holder or for such holder’s account, purchases (in an open market transaction or otherwise) shares of Common Stock to deliver in satisfaction of a sale by such holder of shares represented by such certificate (a “*Buy-In*”), then the Company shall pay in cash to such holder (for costs incurred either directly by such holder or on behalf of a third party) the amount by which the total purchase price paid for Common Stock as a result of the Buy-In (including brokerage commissions, if any) exceeds the proceeds received by such holder as a result of the sale to which such Buy-In relates. The holder shall provide the Company written notice indicating the amounts payable to the holder in respect of the Buy-In and, upon request of the Company, evidence of the amount of such loss.

4.2 **Reservation of Common Stock.** The Company shall take all action necessary to at all times have authorized, and reserved for the purpose of issuance from and after the Closing Date, no less than 100% of the number of shares of Common Stock issuable upon exercise of the Warrants issued at the Closing (without taking into account any limitations on exercise of the Warrants set forth in the Warrants).

4.3 **Furnishing of Information.** In order to enable the Purchasers to sell the Securities under Rule 144 of the Securities Act, until such time as all of the Shares and Warrant Shares have been either sold or are eligible for sale without restriction pursuant to Rule 144, the Company shall use its commercially reasonable efforts to timely file (or obtain extensions in respect thereof and file within the applicable grace period) all reports required to be filed by the Company after the date hereof pursuant to the Exchange Act. During such period, if the Company is not required to file reports pursuant to such laws, it will prepare and furnish to the Purchasers and make publicly available in accordance with Rule 144(c) such information as is required for the Purchasers to sell the Shares and Warrant Shares under Rule 144. The Company further covenants that it will take such further action as any holder of Securities may reasonably request, all to the extent required from time to time to enable such Person to sell the Shares and Warrant Shares without registration under the Securities Act within the limitation of the exemptions provided by Rule 144.

4.4 **Reporting Status.** During the one year period from and after the Closing, the Company shall not terminate its status as an issuer required to file reports under the Exchange Act even if the Exchange Act would otherwise permit such termination.

4.5 **Form D and Blue Sky.** The Company agrees to file a Form D with respect to the sale of the Shares and Warrants as required under Regulation D and to provide a copy thereof to the Agents’ Representative promptly after such filing. The Company, on or before the Closing Date, shall take such action as the Company shall reasonably determine is necessary in order to obtain an exemption for or to qualify the Securities for sale to the Purchasers at the Closing pursuant to this Agreement under applicable securities or “Blue Sky” laws of the states of the United States (or to obtain an exemption from such qualification), and shall provide evidence of any such action so taken to the Agents’ Representative on or prior to the Closing Date. The Company shall make all filings and reports relating to the offer and sale of the Securities required under applicable securities or “Blue Sky” laws of the states of the United States following the Closing Date.

4.6 No Integration. The Company shall not, and shall use its best efforts to ensure that no Affiliate of the Company shall, sell, offer for sale or solicit offers to buy or otherwise negotiate in respect of any security (as defined in Section 2 of the Securities Act) that will be integrated with the offer or sale of the Securities in a manner that would require the registration under the Securities Act of the sale of the Securities to the Purchasers, or that will be integrated with the offer or sale of the Securities for purposes of the rules and regulations of any Trading Market such that it would require shareholder approval prior to the closing of such other transaction unless shareholder approval is obtained before the closing of such subsequent transaction.

4.7 Securities Laws Disclosure; Publicity. By 9:00 a.m. (New York City time) on the Trading Day immediately following the execution of this Agreement, the Company shall issue a press release (the "Press Release") reasonably acceptable to the Agents' Representative disclosing all material terms of the transactions contemplated hereby. On or prior to the fourth (4th) Business Day following the date of this Agreement, the Company will file a Current Report on Form 8-K with the Commission describing the terms of the Transaction Documents (and including as exhibits to such Current Report on Form 8-K the material Transaction Documents (including, without limitation, this Agreement, the form of Warrant and the Registration Rights Agreement)). Each Purchaser, severally and not jointly with the other Purchasers, covenants that until such time as the transactions contemplated by this Agreement are publicly disclosed by the Company as described in Section 4.7, such Purchaser will maintain the confidentiality of all disclosures made to it in connection with this transaction (including the existence and terms of this transaction).

4.8 Listing of Securities. Promptly following the date hereof, the Company shall take all necessary action to cause the Shares, the Warrant Shares and the shares of Common Stock issuable upon exercise of the Placement Agents' Warrants to be listed upon the Principal Trading Market, if any, upon which shares of Common Stock are then listed (subject to official notice of issuance) and shall maintain, so long as any other shares of Common Stock shall be so listed, such listing. Further, if the Company applies to have its Common Stock or other securities listed on any other Trading Market, it shall include in such application the Shares and the Warrant Shares (including the shares of Common Stock issuable upon exercise of the warrants issued to the Placement Agents) and will take such other action as is necessary to cause the Shares, and the Warrant Shares (including the shares of Common Stock issuable upon exercise of the warrants issued to the Placement Agents) to be listed on such other Trading Market as promptly as practicable.

4.9 Use of Proceeds. The Company intends to use the net proceeds from the sale of the Securities hereunder for working capital and general corporate purposes.

4.10 Sales and Confidentiality After the Date Hereof. Such Purchaser shall not, and shall cause its Trading Affiliates not to, engage, directly or indirectly, in any transactions in the securities of the Company (including, without limitation, any Short Sales) during the period from the date hereof until such time as (i) the transactions contemplated by this Agreement are first publicly announced as described in Section 4.7 or (ii) this Agreement is terminated in full pursuant to Section 6.16. Notwithstanding the foregoing, in the case of a Purchaser that is a multi-managed investment vehicle whereby separate portfolio managers manage separate portions of such Purchaser's assets and the portfolio managers have no direct knowledge of the investment decisions made by the portfolio managers managing other portions of such Purchaser's assets, the representation set forth above shall apply only with respect to the portion of assets managed by the portfolio manager that have knowledge about the financing transaction contemplated by this Agreement. Each Purchaser understands and acknowledges, severally and not jointly with any other Purchaser, that the Commission currently takes the position that covering a short position established prior to effectiveness of a resale registration statement with shares included in such registration statement would be a violation of Section 5 of the Securities Act, as set forth in Item 65, Section 5 under Section A, of the Manual of Publicly Available Telephone Interpretations, dated July 1997, compiled by the Office of Chief Counsel, Division of Corporation Finance.

4.11 Equal Treatment of Purchasers. No consideration shall be offered or paid to any Person to amend or consent to a waiver or modification of any provision of any of the Transaction Documents unless the same consideration is also offered to all of the parties to the Transaction Documents. For clarification purposes, this provision constitutes a separate right granted to each Purchaser by the Company and negotiated separately by each Purchaser, and is intended for the Company to treat the Purchasers as a class and shall not in any way be construed as the Purchasers acting in concert or as a group with respect to the purchase, disposition or voting of Shares or otherwise.

4.12 Indemnification. Subject to the provisions of this Section 412, the Company will indemnify and hold each Purchaser and its directors, officers, shareholders, members, partners, employees and agents (and any other Persons with a functionally equivalent role of a Person holding such titles notwithstanding a lack of such title or any other title), each Person who controls such Purchaser (within the meaning of Section 15 of the Securities Act and Section 20 of the Exchange Act), and the directors, officers, shareholders, agents, members, partners or employees (and any other Persons with a functionally equivalent role of a Person holding such titles notwithstanding a lack of such title or any other title) of such controlling persons (each, a "*Purchaser Party*") harmless from any and all losses, liabilities, obligations, claims, contingencies, damages, costs and expenses, including all judgments, amounts paid in settlements, court costs and reasonable attorneys' fees and costs of investigation that any such Purchaser Party may suffer or incur as a result of or relating to (a) any breach of any of the representations, warranties, covenants or agreements made by the Company in this Agreement or in the other Transaction Documents, or (b) any action instituted against a Purchaser, or any of them or their respective Affiliates, by any stockholder of the Company who is not an Affiliate of such Purchaser, with respect to any of the transactions contemplated by the Transaction Documents (unless such action is based upon a breach of such Purchaser's representations, warranties or covenants under the Transaction Documents or any agreements or understandings such Purchaser may have with any such stockholder or any violations by the Purchaser of state or federal securities laws or any conduct by such Purchaser which constitutes fraud, gross negligence, willful misconduct or malfeasance). If any action shall be brought against any Purchaser Party in respect of which indemnity may be sought pursuant to this Agreement, such Purchaser Party shall promptly notify the Company in writing, and the Company shall have the right to assume the defense thereof with counsel of its own choosing reasonably acceptable to the Purchaser Party. Any Purchaser Party shall have the right to employ separate counsel in any such action and participate in the defense thereof, but the fees and expenses of such counsel shall be at the expense of such Purchaser Party except to the extent that (i) the employment thereof has been specifically authorized by the Company in writing, (ii) the Company has failed after a reasonable period of time to assume such defense and to employ counsel, or (iii) in such action there is, in the reasonable opinion of such separate counsel, a material conflict on any material issue between the position of the Company and the position of such Purchaser Party, in which case the Company shall be responsible for the reasonable fees and expenses of no more than one such separate counsel. The Company will not be liable to any Purchaser Party under this Agreement (i) for any settlement by a Purchaser Party effected without the Company's prior written consent, which shall not be unreasonably withheld or delayed; or (ii) to the extent, but only to the extent that a loss, claim, damage or liability is attributable to (A) any Purchaser Party's breach of any of the representations, warranties, covenants or agreements made by such Purchaser Party in this Agreement or in the other Transaction Documents, (B) any violations by the Purchaser of state or federal securities laws or (C) any conduct by such Purchaser which constitutes fraud, gross negligence, willful misconduct or malfeasance.

ARTICLE V.
CONDITIONS PRECEDENT TO CLOSING

5.1 Conditions Precedent to the Obligations of the Purchasers to Purchase Securities. The obligation of each Purchaser to acquire Shares and Warrants at the Closing is subject to the fulfillment to such Purchaser's satisfaction, on or prior to the Closing Date, of each of the following conditions, any of which may be waived by such Purchaser (as to itself only):

(a) Representations and Warranties. The representations and warranties of the Company contained herein shall be true and correct in all material respects (except that representations and warranties that are qualified by materiality or Material Adverse Effect shall be true and correct in all respects) as of the date when made and as of the Closing Date, as though made on and as of such date, except for representations and warranties that speak as of a specific date which shall be true and correct in all material respects as of such date;

(b) Performance. The Company shall have performed, satisfied and complied in all material respects with all covenants, agreements and conditions required by the Transaction Documents to be performed, satisfied or complied with by it at or prior to the Closing;

(c) No Injunction. No statute, rule, regulation, executive order, decree, ruling or injunction shall have been enacted, entered, promulgated or endorsed by any court or governmental authority of competent jurisdiction that prohibits the consummation of any of the transactions contemplated by the Transaction Documents;

(d) Consents. The Company shall have obtained in a timely fashion any and all consents, permits, approvals, registrations and waivers necessary or appropriate for consummation of the purchase and sale of the Securities, all of which shall be and remain so long as necessary in full force and effect;

(e) Adverse Changes. Since the date of execution of this Agreement, no event or series of events shall have occurred that has resulted or reasonably could result in a Material Adverse Effect, nor shall a banking moratorium have been declared by either the United States or New York State authorities nor shall there have occurred any material outbreak or escalation of hostilities or other national or international calamity of such magnitude in its effect on, or any material adverse change in, any financial market which, in each case, in the reasonable judgment of each Purchaser, makes it impractical or inadvisable to purchase the Shares and Warrants at the Closing;

(f) No Suspensions of Trading in Common Stock; Listing. The Common Stock (i) shall be designated for quotation or listed on the Principal Market and (ii) shall not have been suspended, as of the Closing Date, by the Commission or the Principal Market from trading on the Principal Market nor shall suspension by the Commission or the Principal Market have been threatened, as of the Closing Date, either (A) in writing by the Commission or the Principal Market or (B) by falling below the minimum listing maintenance requirements of the Principal Market;

(g) Company Deliverables. The Company shall have delivered the Company Deliverables in accordance with Section 2.2(a);

(h) Compliance Certificate. The Company shall have delivered to each Purchaser a certificate, dated as of the Closing Date and signed by its Chief Executive Officer or its Chief Financial Officer, dated as of the Closing Date, certifying to the fulfillment of the conditions specified in Sections 5.1(a), (b), (c), (d) and (f); and

(i) Termination. This Agreement shall not have been terminated as to such Purchaser in accordance with Section 6.16 herein.

5.2 Conditions Precedent to the Obligations of the Company to Sell Securities. The Company's obligation to sell and issue the Shares and Warrants at the Closing is subject to the fulfillment to the satisfaction of the Company on or prior to the Closing Date of the following conditions, any of which may be waived by the Company:

(a) Representations and Warranties. The representations and warranties made by the Purchasers in Section 3.2 hereof shall be true and correct in all material respects (except that representations and warranties that are qualified by materiality or Material Adverse Effect shall be true and correct in all respects) as of the date when made, and as of the Closing Date as though made on and as of such date, except for representations and warranties that speak as of a specific date which shall be true and correct in all material respects as of such date;

(b) Performance. The Purchasers shall have performed, satisfied and complied in all material respects with all covenants, agreements and conditions required by the Transaction Documents to be performed, satisfied or complied with by the Purchasers at or prior to the Closing Date;

(c) No Injunction. No statute, rule, regulation, executive order, decree, ruling or injunction shall have been enacted, entered, promulgated or endorsed by any court or governmental authority of competent jurisdiction that prohibits the consummation of any of the transactions contemplated by the Transaction Documents;

(d) Consents. The Company shall have obtained in a timely fashion any and all consents, permits, approvals, registrations and waivers necessary or appropriate for consummation of the purchase and sale of the Securities, all of which shall be and remain so long as necessary in full force and effect;

(e) Purchasers Deliverables. Each Purchaser shall have delivered its Purchaser Deliverables in accordance with Section 2.2(b); and

(f) Termination. This Agreement shall not have been terminated as to such Purchaser in accordance with Section 6.16 herein.

ARTICLE VI.
MISCELLANEOUS

6.1 Fees and Expenses. The Company and the Purchasers shall each pay the fees and expenses of their respective advisers, counsel, accountants and other experts, if any, and all other expenses incurred by such party in connection with the negotiation, preparation, execution, delivery and performance of this Agreement. The Company shall pay all Transfer Agents' fees, stamp taxes and other taxes and duties levied in connection with the sale and issuance of the Securities to the Purchasers.

6.2 Entire Agreement. The Transaction Documents, together with the Exhibits and Schedules thereto, contain the entire understanding of the parties with respect to the subject matter hereof and supersede all prior agreements, understandings, discussions and representations, oral or written, with respect to such matters, which the parties acknowledge have been merged into such documents, exhibits and schedules. At or after the Closing, and without further consideration, the Company and the Purchasers will execute and deliver to the other such further documents as may be reasonably requested in order to give practical effect to the intention of the parties under the Transaction Documents.

6.3 Notices. Any and all notices or other communications or deliveries required or permitted to be provided hereunder shall be in writing and shall be deemed given and effective on the earliest of (a) the date of transmission, if such notice or communication is delivered via facsimile (provided the sender receives a machine-generated confirmation of successful transmission) at the facsimile number specified in this Section prior to 5:00 p.m. (New York City time) on a Trading Day, (b) the next Trading Day after the date of transmission, if such notice or communication is delivered via facsimile at the facsimile number specified in this Section on a day that is not a Trading Day or later than 5:00 p.m. (New York City time) on any Trading Day, (c) the Trading Day following the date of mailing, if sent by U.S. nationally recognized overnight courier service with next day delivery specified, or (d) upon actual receipt by the party to whom such notice is required to be given. The address for such notices and communications shall be as follows:

If to the Company: ZIOPHARM Oncology, Inc.
1180 Avenue of the Americas
19th Floor
New York, New York 10036
Telephone No.: (646) 214-0707
Facsimile No.: (646) 214-0711
Attention: Jonathan Lewis. M.D., Ph.D.

With a copy to: Maslon Edelman Borman & Brand, LLP
3300 Wells Fargo Center
90 South Seventh Street
Minneapolis, MN 55402
Telephone No.: (612) 672-8200
Facsimile No.: (612) 672-8397
Attention: Alan M. Gilbert, Esq.

If to a Purchaser: To the address set forth under such Purchaser's name on the signature page hereof;

or such other address as may be designated in writing hereafter, in the same manner, by such Person.

6.4 Amendments; Waivers; No Additional Consideration. No provision of this Agreement may be waived or amended except in a written instrument signed, in the case of an amendment, by the Company and each of the Purchasers or, in the case of a waiver, by the party against whom enforcement of any such waiver is sought. No waiver of any default with respect to any provision, condition or requirement of this Agreement shall be deemed to be a continuing waiver in the future or a waiver of any subsequent default or a waiver of any other provision, condition or requirement hereof, nor shall any delay or omission of either party to exercise any right hereunder in any manner impair the exercise of any such right. No consideration shall be offered or paid to any Purchaser to amend or consent to a waiver or modification of any provision of any Transaction Document unless the same consideration is also offered to all Purchasers who then hold Securities.

6.5 **Construction.** The headings herein are for convenience only, do not constitute a part of this Agreement and shall not be deemed to limit or affect any of the provisions hereof. The language used in this Agreement will be deemed to be the language chosen by the parties to express their mutual intent, and no rules of strict construction will be applied against any party. This Agreement shall be construed as if drafted jointly by the parties, and no presumption or burden of proof shall arise favoring or disfavoring any party by virtue of the authorship of any provisions of this Agreement or any of the Transaction Documents.

6.6 **Successors and Assigns.** The provisions of this Agreement shall inure to the benefit of and be binding upon the parties and their successors and permitted assigns. This Agreement, or any rights or obligations hereunder, may not be assigned by the Company without the prior written consent of the Purchasers. Any Purchaser may assign its rights hereunder in whole or in part to any Person to whom such Purchaser assigns or transfers any Securities in compliance with this Agreement and applicable law, *provided* such transferee shall agree in writing to be bound, with respect to the transferred Securities, by the terms and conditions of this Agreement that apply to the “Purchasers”.

6.7 **No Third-Party Beneficiaries.** This Agreement is intended for the benefit of the parties hereto and their respective successors and permitted assigns and is not for the benefit of, nor may any provision hereof be enforced by, any other Person, except the Placement Agents are intended third party beneficiaries of Article III hereof and each Placement Agent may enforce the provisions of such Sections directly against the parties with obligations thereunder.

6.8 **Governing Law.** All questions concerning the construction, validity, enforcement and interpretation of this Agreement shall be governed by and construed and enforced in accordance with the internal laws of the State of New York, without regard to the principles of conflicts of law thereof. Each party agrees that all Actions concerning the interpretations, enforcement and defense of the transactions contemplated by this Agreement and any other Transaction Documents (whether brought against a party hereto or its respective Affiliates, employees or agents) shall be commenced exclusively in the New York Courts. Each party hereto hereby irrevocably submits to the exclusive jurisdiction of the New York Courts for the adjudication of any dispute hereunder or in connection herewith or with any transaction contemplated hereby or discussed herein (including with respect to the enforcement of any of the Transaction Documents), and hereby irrevocably waives, and agrees not to assert in any Action, any claim that it is not personally subject to the jurisdiction of any such New York Court, or that such Action has been commenced in an improper or inconvenient forum. Each party hereto hereby irrevocably waives personal service of process and consents to process being served in any such Action by mailing a copy thereof via registered or certified mail or overnight delivery (with evidence of delivery) to such party at the address in effect for notices to it under this Agreement and agrees that such service shall constitute good and sufficient service of process and notice thereof. Nothing contained herein shall be deemed to limit in any way any right to serve process in any manner permitted by law. **EACH PARTY HERETO 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.** If either party shall commence a Action to endorse any provisions of a Transaction Document, then the prevailing party in such Action shall be reimbursed by the other party for its reasonable attorney’s fees and other reasonable costs and expenses incurred with the investigation preparation and prosecution of such Action.

6.9 **Survival.** Subject to applicable statute of limitations, the representations, warranties, agreements and covenants contained herein shall survive the Closing and the delivery of the Securities until the one year anniversary of the Closing.

6.10 Execution. This Agreement may be executed in two or more counterparts, all of which when taken together shall be considered one and the same agreement and shall become effective when counterparts have been signed by each party and delivered to the other party, it being understood that both parties need not sign the same counterpart. In the event that any signature is delivered by facsimile transmission, or by e-mail delivery of a “.pdf” format data file, such signature shall create a valid and binding obligation of the party executing (or on whose behalf such signature is executed) with the same force and effect as if such facsimile signature page were an original thereof.

6.11 Severability. If any provision of this Agreement is held to be invalid or unenforceable in any respect, the validity and enforceability of the remaining terms and provisions of this Agreement shall not in any way be affected or impaired thereby and the parties will attempt to agree upon a valid and enforceable provision that is a reasonable substitute therefor, and upon so agreeing, shall incorporate such substitute provision in this Agreement.

6.12 Rescission and Withdrawal Right. Notwithstanding anything to the contrary contained in (and without limiting any similar provisions of) the Transaction Documents, whenever any Purchaser exercises a right, election, demand or option under a Transaction Document and the Company does not timely perform its related obligations within the periods therein provided, then such Purchaser may rescind or withdraw, in its sole discretion from time to time upon written notice to the Company, any relevant notice, demand or election in whole or in part without prejudice to its future actions and rights.

6.13 Replacement of Securities. If any certificate or instrument evidencing any Securities is mutilated, lost, stolen or destroyed, the Company shall issue or cause to be issued in exchange and substitution for and upon cancellation thereof, or in lieu of and substitution therefor, a new certificate or instrument, but only upon receipt of evidence reasonably satisfactory to the Company and the Transfer Agent of such loss, theft or destruction and the execution by the holder thereof of a customary lost certificate affidavit of that fact and an agreement to indemnify and hold harmless the Company and the Transfer Agent for any losses in connection therewith or, if required by the Transfer Agent, a bond in such form and amount as is reasonably required by the Transfer Agent. The applicants for a new certificate or instrument under such circumstances shall also pay any reasonable third-party costs associated with the issuance of such replacement Securities. If a replacement certificate or instrument evidencing any Securities is requested due to a mutilation thereof, the Company may require delivery of such mutilated certificate or instrument as a condition precedent to any issuance of a replacement.

6.14 Adjustments in Share Numbers and Prices. In the event of any stock split, subdivision, dividend or distribution payable in shares of Common Stock (or other securities or rights convertible into, or entitling the holder thereof to receive directly or indirectly shares of Common Stock), combination or other similar recapitalization or event occurring after the date hereof, each reference in any Transaction Document to a number of shares or a price per share shall be deemed to be amended to appropriately account for such event.

6.15 Independent Nature of Purchasers' Obligations and Rights. The obligations of each Purchaser under any Transaction Document are several and not joint with the obligations of any other Purchaser, and no Purchaser shall be responsible in any way for the performance of the obligations of any other Purchaser under any Transaction Document. The decision of each Purchaser to purchase Securities pursuant to the Transaction Documents has been made by such Purchaser independently of any other Purchaser and independently of any information, materials, statements or opinions as to the business, affairs, operations, assets, properties, liabilities, results of operations, condition (financial or otherwise) or prospects of the Company which may have been made or given by any other Purchaser or by any agent or employee of any other Purchaser, and no Purchaser and any of its agents or employees shall have any liability to any other Purchaser (or any other Person) relating to or arising from any such information, materials, statement or opinions. Nothing contained herein or in any Transaction Document, and no action taken by any Purchaser pursuant thereto, shall be deemed to constitute the Purchasers as a partnership, an association, a joint venture or any other kind of entity, or create a presumption that the Purchasers are in any way acting in concert or as a group with respect to such obligations or the transactions contemplated by the Transaction Documents. Each Purchaser acknowledges that no other Purchaser has acted as agent for such Purchaser in connection with making its investment hereunder and that no Purchaser will be acting as agent of such Purchaser in connection with monitoring its investment in the Securities or enforcing its rights under the Transaction Documents. Each Purchaser shall be entitled to independently protect and enforce its rights, including without limitation the rights arising out of this Agreement or out of the other Transaction Documents, and it shall not be necessary for any other Purchaser to be joined as an additional party in any proceeding for such purpose. The Company acknowledges that each of the Purchasers has been provided with the same Transaction Documents for the purpose of closing a transaction with multiple Purchasers and not because it was required or requested to do so by any Purchaser. The Company's obligations to each Purchaser under this Agreement are identical to its obligations to each other Purchaser other than such differences resulting solely from the number of Securities purchased by such Purchaser, but regardless of whether such obligations are memorialized herein or in another agreement between the Company and a Purchaser.

6.16 Termination. This Agreement may be terminated and the sale and purchase of the Shares and the Warrants abandoned at any time prior to the Closing by either the Company or any Purchaser (with respect to itself only) upon written notice to the other, if the Closing has not been consummated on or prior to 5:00 p.m. (New York City time) on the Outside Date; *provided, however*, that the right to terminate this Agreement under this Section 6.16 shall not be available to any Person whose failure to comply with its obligations under this Agreement has been the cause of or resulted in the failure of the Closing to occur on or before such time. Nothing in this Section 6.16 shall be deemed to release any party from any liability for any breach by such party of the terms and provisions of this Agreement or the other Transaction Documents or to impair the right of any party to compel specific performance by any other party of its obligations under this Agreement or the other Transaction Documents. In the event of a termination pursuant to this Section, the Company shall promptly notify all non-terminating Purchasers. Upon a termination in accordance with this Section, the Company and the terminating Purchaser(s) shall not have any further obligation or liability (including arising from such termination) to the other, and no Purchaser will have any liability to any other Purchaser under the Transaction Documents as a result therefrom.

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[SIGNATURE PAGES FOLLOW]

IN WITNESS WHEREOF, the parties hereto have caused this Securities Purchase Agreement to be duly executed by their respective authorized signatories as of the date first indicated above.

ZIOPHARM ONCOLOGY, INC.

By: _____

Name:

Title:

[REMAINDER OF PAGE INTENTIONALLY LEFT BLANK]
[SIGNATURE PAGES FOR PURCHASERS FOLLOW]

NAME OF PURCHASER: _____

By: _____

Name: _____

Title: _____

Purchase Price (Subscription Amount): \$ _____

Number of Shares to be acquired: _____

Underlying Shares subject to Warrant: _____

(100.0% of the number of Shares to be acquired)

Tax ID No.(or Social Security No., if a natural person): _____

Address for Notice:

Telephone No.: _____

Facsimile No.: _____

Attention: _____

REGISTRATION RIGHTS AGREEMENT

This Registration Rights Agreement (this “*Agreement*”) is made and entered into as of September 9, 2009, by and among ZIOPHARM Oncology, Inc., a Delaware corporation (the “*Company*”), and the several purchasers signatory hereto (each a “*Purchaser*” and collectively, the “*Purchasers*”).

This Agreement is made pursuant to the Securities Purchase Agreement, dated as of the date hereof between the Company and each Purchaser (the “*Purchase Agreement*”).

NOW, THEREFORE, IN CONSIDERATION of the mutual covenants contained in this Agreement, and for other good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, the Company and the Purchasers agree as follows:

1. **Definitions.** Capitalized terms used and not otherwise defined herein that are defined in the Purchase Agreement shall have the meanings given such terms in the Purchase Agreement. As used in this Agreement, the following terms shall have the respective meanings set forth in this Section 1:

“*Advice*” shall have the meaning set forth in Section 6(d).

“*Affiliate*” means, with respect to any person, any other person which directly or indirectly controls, is controlled by, or is under common control with, such person.

“*Business Day*” means a day, other than a Saturday or Sunday, on which banks in New York City are open for the general transaction of business.

“*Closing*” has the meaning set forth in the Purchase Agreement.

“*Closing Date*” has the meaning set forth in the Purchase Agreement.

“*Commission*” means the United States Securities and Exchange Commission.

“*Common Stock*” means the common stock of the Company, par value \$0.001 per share, and any securities into which such common stock may hereinafter be reclassified.

“*Effective Date*” means the date that the Registration Statement filed pursuant to Section 2(a) is first declared effective by the Commission.

“*Effectiveness Deadline*” means, with respect to the Registration Statement required to be filed to cover the resale by the Holders of the Registrable Securities, the earlier of: (i) the 90th calendar day following the Closing Date; *provided*, that, if the Commission reviews and has written comments to the filed Registration Statement, then the Effectiveness Deadline under this clause (i) shall be the 120th calendar day following the Closing Date, and (ii) the fifth (5th) Trading Day following the date on which the Company is notified by the Commission that the Registration Statement will not be reviewed or is no longer subject to further review and comments and the effectiveness of the Registration Statement may be accelerated; *provided, however*, that in either case if the Effective Deadline falls on a Saturday, Sunday or other day that the Commission is closed for business, the Effectiveness Deadline shall be extended to the next business day on which the Commission is open for business.

“*Effectiveness Period*” shall have the meaning set forth in Section 2(b).

“*Event*” shall have the meaning set forth in Section 2(c).

“*Event Date*” shall have the meaning set forth in Section 2(c).

“*Exchange Act*” means the Securities Exchange Act of 1934, as amended, and the rules and regulations promulgated thereunder.

“*Filing Deadline*” means, with respect to the Registration Statement required to be filed pursuant to Section 2(a), the 60th calendar day following the Closing Date; *provided, however*, that if the Filing Deadline falls on a Saturday, Sunday or other day that the Commission is closed for business, the Filing Deadline shall be extended to the next business day on which the Commission is open for business.

“*Holder*” or “*Holder*s” means the holder or holders, as the case may be, from time to time of Registrable Securities.

“*Indemnified Party*” shall have the meaning set forth in Section 5(c).

“*Indemnifying Party*” shall have the meaning set forth in Section 5(c).

“*Knowledge*” means with respect to any statement made to the knowledge of a party, that the statement is based upon the actual knowledge of the executive officers of such party having responsibility for the matter or matters that are the subject of the statement.

“*Losses*” shall have the meaning set forth in Section 5(a).

“*New York Courts*” means the state and federal courts sitting in the City of New York, Borough of Manhattan.

“*Person*” means an individual or corporation, partnership, trust, incorporated or unincorporated association, joint venture, limited liability company, joint stock company, government (or an agency or subdivision thereof) or other entity of any kind.

“*Placement Agents*” means Rodman & Renshaw, LLC, Riverbank Capital Securities, Inc. and Griffin Securities, Inc., and any permitted assigns.

“*Principal Trading Market*” means the Trading Market on which the Common Stock is primarily listed on and quoted for trading, which, as of the Closing Date, shall be The NASDAQ Capital Market.

“*Proceeding*” means an action, claim, suit, investigation or proceeding (including, without limitation, an investigation or partial proceeding, such as a deposition), whether commenced or threatened.

“*Prospectus*” means the prospectus included in a Registration Statement (including, without limitation, a prospectus that includes any information previously omitted from a prospectus filed as part of an effective registration statement in reliance upon Rule 430A promulgated under the Securities Act), as amended or supplemented by any prospectus supplement, with respect to the terms of the offering of any portion of the Registrable Securities covered by a Registration Statement, and all other amendments and supplements to the Prospectus, including post-effective amendments, and all material incorporated by reference or deemed to be incorporated by reference in such Prospectus.

“Register,” “registered” and “registration” refer to a registration made by preparing and filing a Registration Statement or similar document in compliance with the Securities Act and pursuant to Rule 415, and the declaration or ordering of effectiveness of such Registration Statement or document.

“*Registrable Securities*” means all of (i) the Shares (ii) the Warrant Shares issued or issuable upon the exercise of the Warrants, (iii) any additional shares issuable in connection with any anti-dilution provisions in the Warrants (without giving effect to any limitations on exercise set forth in the Warrant) and (iv) any securities issued or issuable upon any stock split, dividend or other distribution, recapitalization or similar event; *provided*, that the Holder has completed and delivered to the Company a Selling Stockholder Questionnaire; and provided, further, that a Holder’s security shall cease to be Registrable Securities upon the earliest to occur of the following: (A) sale pursuant to a Registration Statement or Rule 144 under the Securities Act (in which case, only such security sold shall cease to be a Registrable Security); or (B) such security becoming eligible for sale by the Holder pursuant to Rule 144 in a transaction in which the requirements of paragraph (c)(1) thereof do not apply.

“*Registration Statements*” means any one or more registration statements of the Company filed under the Securities Act that covers the resale of any of the Registrable Securities pursuant to the provisions of this Agreement (including without limitation the Initial Registration Statement, the New Registration Statement and any Remainder Registration Statements), amendments and supplements to such Registration Statements, including post-effective amendments, all exhibits and all material incorporated by reference or deemed to be incorporated by reference in such Registration Statements.

“*Rule 144*” means Rule 144 promulgated by the Commission pursuant to the Securities Act, as such Rule may be amended from time to time, or any similar rule or regulation hereafter adopted by the Commission having substantially the same effect as such Rule.

“*Rule 415*” means Rule 415 promulgated by the Commission pursuant to the Securities Act, as such Rule may be amended from time to time, or any similar rule or regulation hereafter adopted by the Commission having substantially the same effect as such Rule.

“*Rule 424*” means Rule 424 promulgated by the Commission pursuant to the Securities Act, as such Rule may be amended from time to time, or any similar rule or regulation hereafter adopted by the Commission having substantially the same effect as such Rule.

“*Securities Act*” means the Securities Act of 1933, as amended, and the rules and regulations promulgated thereunder.

“*Selling Stockholder Questionnaire*” means a questionnaire in the form attached as Annex B hereto, or such other form of questionnaire as may reasonably be adopted by the Company from time to time.

“*Shares*” means the shares of Common Stock issued or issuable to the Purchasers pursuant to the Purchase Agreement.

“*Trading Day*” means (i) a day on which the Common Stock is listed or quoted and may be traded on its primary Trading Market (other than the OTC Bulletin Board), or (ii) if the Common Stock is not listed on a Trading Market (other than the OTC Bulletin Board), a day on which the Common Stock may be traded in the over-the-counter market, as reported by the OTC Bulletin Board, or (iii) if the Common Stock is not quoted on any Trading Market, a day on which the Common Stock is quoted in the over-the-counter market as reported by the National Quotation Bureau Incorporated (or any similar organization or agency succeeding to its functions of reporting prices); *provided*, that in the event that the Common Stock is not listed or quoted as set forth in (i), (ii) and (iii) hereof, then Trading Day shall mean a Business Day.

“*Trading Market*” means whichever of the New York Stock Exchange, the American Stock Exchange, the NASDAQ Global Select Market, the NASDAQ Global Market, the NASDAQ Capital Market or OTC Bulletin Board on which the Common Stock is listed or quoted for trading on the date in question.

“*Transfer Agent*” means American Stock Transfer and Trust Company or any successor transfer agent for the Company, or a Successor transfer agent to the Company.

“*Warrants*” means the Warrants issued pursuant to the Purchase Agreement.

“*Warrant Shares*” means the shares of Common Stock issued or issuable upon exercise of the Warrants.

2. Registration.

(a) On or prior to the 30th calendar day following the Closing Date, the Company shall prepare and file with the Commission a Registration Statement covering the resale of all Registrable Securities not already covered by an existing and effective Registration Statement for an offering to be made on a continuous basis pursuant to Rule 415 (the “*Initial Registration Statement*”); *provided, however*, that if the 30th calendar day following the Closing Date falls on a Saturday, Sunday or other day that the Commission is closed for business, such deadline shall be extended to the next business day on which the Commission is open for business. The Initial Registration Statement shall be on Form S-3 (except if the Company is not then eligible to register for resale the Registrable Securities on Form S-3, in which case such registration shall be on another appropriate form in accordance with the Securities Act) and shall contain (except if otherwise required pursuant to written comments received from the Commission upon a review of such Registration Statement) the “Plan of Distribution” attached hereto as Annex A. Notwithstanding the registration obligations set forth in this subsection (a) and subsections (b) and (c) of this Section 2, in the event the Commission informs the Company that all of the Registrable Securities cannot, as a result of the application of Rule 415, be registered for resale on a single registration statement, the Company agrees to promptly (i) inform each of the holders thereof; (ii) permit counsel of such holders (subject to Section 4, at such holders expense) to review and participate in discussions regarding the Company’s response to the Commission regarding the application of 415 to the Registration Statement, (iii) use its reasonable best efforts to file amendments to the Initial Registration Statement as required by the Commission and/or (iv) if required by the Commission, withdraw the Initial Registration Statement and file a new registration statement (a “*New Registration Statement*”), in either case covering the maximum number of Registrable Securities permitted to be registered by the Commission on Form S-3 or such other form available to register for resale the Registrable Securities. In the event the Company amends the Initial Registration Statement or files a New Registration Statement, as the case may be, under clauses (i) or (ii) above, the Company will use its reasonable best efforts to file with the Commission, as promptly as allowed by Commission or staff guidance provided to the Company or to registrants of securities in general, one or more Registration Statements on Form S-3 or such other form available to register for resale those Registrable Securities that were not registered for resale on the Initial Registration Statement, as amended, or the New Registration Statement (the “*Remainder Registration Statements*”).

(b) The Company shall use its reasonable commercial efforts to cause each Registration Statement to be declared effective by the Commission as soon as practicable and, with respect to the Initial Registration Statement or the New Registration Statement, as applicable, no later than the Effectiveness Deadline and shall use its reasonable commercial efforts to keep each Registration Statement continuously effective under the Securities Act until the earlier of (i) such time as all of the Registrable Securities covered by such Registration Statement have been publicly sold by the Holders, (ii) the date that all Registrable Securities covered by such Registration Statement may be sold pursuant to Rule 144 in transactions in which the requirements of paragraph (c)(1) thereof do not apply, as determined by counsel to the Company pursuant to a written opinion letter to such effect, addressed and acceptable to the Transfer Agent and the affected Holders (the “*Effectiveness Period*”). The Company shall ensure that each Registration Statement (including any amendments or supplements thereto and prospectuses contained therein) shall not contain any 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 (in the case of prospectuses, in the light of the circumstances in which they were made) not misleading. Each Registration Statement shall also cover, to the extent allowable under the Securities Act and the rules promulgated thereunder (including Rule 416), such indeterminate number of additional shares of Common Stock resulting from stock splits, stock dividends or similar transactions with respect to the Registrable Securities. The Company shall promptly notify the Holders via facsimile or e-mail of the effectiveness of a Registration Statement and shall, by 9:30 am Eastern Time on the Trading Day after the Effective Date (as defined in the Purchase Agreement), file a final Prospectus with the Commission pursuant to Rule 424.

(c) If: (i) the Initial Registration Statement is not filed on or prior to the Filing Deadline, (ii) the Initial Registration Statement or the New Registration Statement, as applicable, is not declared effective by the Commission (or otherwise does not become effective) on or prior to its Effectiveness Deadline or (iii) after its Effective Date, such Registration Statement ceases for any reason (including without limitation by reason of a stop order, or the Company’s failure to update the Registration Statement), but excluding the inability of any Holder to sell the Registrable Securities covered thereby due to market conditions, to remain continuously effective and available to the Holders as to all Registrable Securities to which it is required to cover at any time prior to the expiration of the Effectiveness Period for an aggregate of more than 20 consecutive Trading Days or for more than an aggregate of 40 Trading Days in any 12-month period (which need not be consecutive), (any such failure or breach in clauses (i), (ii) or (iii) above being referred to as an “*Event*,” and, for purposes of clauses (i) or (ii), the date on which such Event occurs, or for purposes of clause (iii), the date which such 20 consecutive or 40 Trading Day period (as applicable) is exceeded, being referred to as the “*Event Date*”), then in addition to any other rights available to the Holders: (x) on such Event Date the Company shall pay to each Holder an amount in cash, as liquidated damages and not as a penalty, equal to 1.0% of the aggregate purchase price paid by such Holder pursuant to the Purchase Agreement for any Registrable Securities then held by such Holder (which remedy shall not be exclusive of any other remedies available under this Agreement); and (y) on each monthly anniversary of each such Event Date thereof (if the applicable Event shall not have been cured by such date) until the applicable Event is cured, the Company shall pay to each Holder an amount in cash, as partial liquidated damages and not as a penalty, equal to 1.0% of the aggregate purchase price paid by such Holder pursuant to the Purchase Agreement for any Registrable Securities then held by such Holder (which remedy shall not be exclusive of any other remedies available under this Agreement). The parties agree that the Company will not be liable for liquidated damages under this Section 2(c) in respect of the Warrants or the Warrant Shares. If the Company fails to pay any partial liquidated damages pursuant to this Section in full within seven days after the date payable, the Company will pay interest thereon at a rate of 10% per annum (or such lesser maximum amount that is permitted to be paid by applicable law) to the Holder, accruing daily from the date such partial liquidated damages are due until such amounts, plus all such interest thereon, are paid in full. The partial liquidated damages pursuant to the terms hereof shall apply on a daily pro-rata basis for any portion of a month prior to the cure of an Event, except in the case of the first Event Date. Notwithstanding the foregoing, the maximum payment to a Holder associated with all Events in the aggregate shall not exceed (i) in any 30-day period, an aggregate of 1.0% of the purchase price paid by such Holder for its Registrable Securities (plus interest accrued thereon, if applicable) and (ii) 10.0% of the purchase paid by such Holder for its Registrable Securities

(d) Each Holder agrees to furnish to the Company a completed and executed Selling Stockholder Questionnaire. The Company shall not be required to include the Registrable Securities of a Holder in a Registration Statement and shall not be required to pay any liquidated or other damages under Section 2(c) to any Holder who fails to furnish to the Company a fully completed and executed Selling Stockholder Questionnaire at least two Trading Days prior to the Filing Deadline, or if sooner, five Trading Days after the Company furnishes copies of the sections of the Prospectus, as contemplated by Section 3(a).

(e) In the event that Form S-3 is not available for the registration of the resale of Registrable Securities hereunder, the Company shall (i) register the resale of the Registrable Securities on another appropriate form reasonably acceptable to the Holders and (ii) undertake to register the Registrable Securities on Form S-3 as soon as such form is available, provided that the Company shall maintain the effectiveness of the Registration Statement then in effect until such time as a Registration Statement on Form S-3 covering the Registrable Securities has been declared effective by the Commission.

3. Registration Procedures

In connection with the Company's registration obligations hereunder, the Company shall:

(a) Not less than five Trading Days prior to the filing of a Registration Statement or any related Prospectus that differs substantively from the Initial Registration Statement or the Prospectus contained therein, or any amendment or supplement thereto, (i) furnish to each Holder copies of all such documents proposed to be filed, which documents (other than those incorporated or deemed to be incorporated by reference) will be subject to the review of such Holder, and (ii) cause its officers and directors, counsel and independent certified public accountants to respond to such inquiries as shall be necessary, in the reasonable opinion of respective counsel to each Holder, to conduct a reasonable investigation within the meaning of the Securities Act. The Company shall not file a Registration Statement or any such Prospectus or any amendments or supplements thereto to which the Holders of 67% of the Registrable Securities shall reasonably object in good faith, provided that the Company is notified of such objection in writing no later than three Trading Days after the Holders have been so furnished copies of a Registration Statement or any related Prospectus or amendments or supplements thereto. During any periods that the Company is unable to meet its obligations hereunder with respect to the registration of the Registrable Securities because the Holders of 67% of the Registrable Securities exercise their rights under this section to object to the filing of a Registration Statement, any liquidated damages that are accruing, at such time shall be tolled and any Event that may otherwise occur because of the exercise of such rights or such delay shall be suspended, until the Holders of 67% of the Registrable Securities no longer object to the filing of such Registration Statement (provided that such tolling shall only occur if the Company uses commercially reasonable efforts to resolve such objection).

(b) (i) Prepare and file with the Commission such amendments, including post-effective amendments, to each Registration Statement and the Prospectus used in connection therewith as may be necessary to keep such Registration Statement continuously effective as to the applicable Registrable Securities for its Effectiveness Period; (ii) cause the related Prospectus to be amended or supplemented by any required Prospectus supplement, and as so supplemented or amended to be filed pursuant to Rule 424; (iii) respond as promptly as reasonably practicable to any comments received from the Commission with respect to each Registration Statement or any amendment thereto and, as promptly as reasonably possible, provide the Holders true and complete copies of all correspondence from and to the Commission relating to such Registration Statement that pertains to the Holders as Selling Stockholders but not any comments that would result in the disclosure to the Holders of material and non-public information concerning the Company; and (iv) comply with the provisions of the Securities Act and the Exchange Act with respect to the disposition of all Registrable Securities covered by each Registration Statement.

(c) Notify the Holders as promptly as reasonably possible (and, in the case of (i)(A) below, not less than three Trading Days prior to such filing, in the case of (iii) and (iv) below, not more than one Trading Day after such issuance or receipt, in the case of (v) below, not less than three Trading Days prior to the financial statements in any Registration Statement becoming ineligible for inclusion therein and, in the case of (vi) below, not more than one Trading Day after the Company obtains Knowledge of such proceeding) and (if requested by any such Person) confirm such notice in writing no later than one Trading Day following the day (i)(A) when a Prospectus or any Prospectus supplement or post-effective amendment to a Registration Statement is proposed to be filed; (B) when the Commission notifies the Company whether there will be a “review” of such Registration Statement and whenever the Commission comments in writing on any Registration Statement (in which case the Company shall provide true and complete copies thereof and all written responses thereto to each of the Holders that pertain to the Holders as a Selling Stockholder or to the Plan of Distribution, but not information which the Company believes would constitute material and non-public information); and (C) with respect to each Registration Statement or any post-effective amendment, when the same has become effective; (ii) the receipt by the Company of any request by the Commission or any other federal or state governmental authority for amendments or supplements to a Registration Statement or Prospectus or for additional information that pertains to the Holders as Selling Stockholders or the Plan of Distribution; (iii) of the issuance by the Commission or any other federal or state governmental authority of any stop order suspending the effectiveness of a Registration Statement covering any or all of the Registrable Securities or the initiation of any Proceedings for that purpose; (iv) of the receipt by the Company of any notification with respect to the suspension of the qualification or exemption from qualification of any of the Registrable Securities for sale in any jurisdiction, or the initiation or threatening of any Proceeding for such purpose; (v) of the occurrence of any event or passage of time that makes the financial statements included in a Registration Statement ineligible for inclusion therein or any statement made in such Registration Statement or Prospectus or any document incorporated or deemed to be incorporated therein by reference untrue in any material respect or that requires any revisions to such Registration Statement, Prospectus or other documents so that, in the case of such Registration Statement or the Prospectus, as the case may be, it will not contain any untrue statement of a material fact or omit to state any material fact required to be stated therein or necessary to make the statements therein (in the case of any Prospectus, form of prospectus or supplement thereto, in light of the circumstances under which they were made), not misleading; and (vi) of a pending proceeding against the Company under Section 8A of the Securities Act in connection with the offering of Registrable Securities.

(d) Use reasonable commercial efforts to avoid the issuance of, or, if issued, obtain the withdrawal of (i) any order suspending the effectiveness of a Registration Statement, or (ii) any suspension of the qualification (or exemption from qualification) of any of the Registrable Securities for sale in any jurisdiction, as soon as practicable.

(e) If requested by a Holder, furnish to such Holder, without charge, at least one conformed copy of each Registration Statement and each amendment thereto and all exhibits to the extent requested by such Person (including those previously furnished or incorporated by reference) promptly after the filing of such documents with the Commission; provided, that the Company shall have no obligation to provide any document pursuant to this clause that is available on the Commission’s EDGAR system.

(f) Upon notification by the Commission that a Registration Statement will not be reviewed or is no longer subject to further review and comments, the Company shall request acceleration of such Registration Statement within five (5) Business Days after receipt of such notice.

(g) Prior to any public offering of Registrable Securities, use its reasonable commercial efforts to register or qualify or cooperate with the selling Holders in connection with the registration or qualification (or exemption therefrom) of such Registrable Securities for offer and sale under the securities or Blue Sky laws of such jurisdictions within the United States as any Holder reasonably requests in writing, to keep each such registration or qualification (or exemption therefrom) effective during the Effectiveness Period and to do any and all other acts or things reasonably necessary to enable the disposition in such jurisdictions of the Registrable Securities covered by the Registration Statements; *provided*, that the Company shall not be required to qualify generally to do business in any jurisdiction where it is not then so qualified or to take any action that would subject the Company to general service of process in any jurisdiction where it is not then so subject or subject the Company to any material tax in any such jurisdiction where it is not then so subject.

(h) If requested by the Holders, cooperate with the Holders to facilitate the timely preparation and delivery of certificates representing Registrable Securities to be delivered to a transferee pursuant to the Registration Statement, which certificates shall be free, to the extent permitted by the Purchase Agreement and under law, of all restrictive legends, and to enable such Registrable Securities to be in such denominations and registered in such names as any such Holders may reasonably request. In connection therewith, if required by the Transfer Agent, the Company shall promptly after the effectiveness of the Registration Statement cause an opinion of counsel as to the effectiveness of the Registration Statement to be delivered to and maintained with its Transfer Agent, together with any other authorizations, certificates and directions required by the transfer agent, which authorize and direct the Transfer Agent to issue such Registrable Securities without legend upon sale by the holder of such shares of Registrable Securities under the Registration Statement.

(i) Following the occurrence of any event contemplated by Section 3(c)(v), as promptly as reasonably possible, prepare a supplement or amendment, including a post-effective amendment, to the affected Registration Statements or a supplement to the related Prospectus or any document incorporated or deemed to be incorporated therein by reference, and file any other required document so that, as thereafter delivered, no effective Registration Statement nor Prospectus in use thereunder will 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 (in the case of any Prospectus, form of prospectus or supplement thereto, in light of the circumstances under which they were made), not misleading.

(j) (i) In the time and manner required by the Principal Trading Market, prepare and file with such Trading Market an additional shares listing application covering all of the Registrable Securities, (ii) take all steps necessary to cause such Registrable Securities to be approved for listing on the Principal Trading Market as soon as possible thereafter, (iii) if requested by any Holder, provide such Holder evidence of such listing, and (iv) during the Effectiveness Period, maintain the listing of such Registrable Securities on the Principal Trading Market.

(k) In order to enable the Holders to sell Shares or Warrant Shares under Rule 144, until such time as all of the Shares and Warrant Shares have either been sold or are eligible for sale without restriction pursuant to Rule 144, the Company shall use its commercially reasonable efforts to timely file (or obtain extensions in respect thereof and file within the applicable grace period) all reports required to be filed by the Company after the date hereof pursuant to Section 13(a) or 15(d) of the Exchange Act. During such one year period, if the Company is not required to file reports pursuant to Section 13(a) or 15(d) of the Exchange Act, it will prepare and furnish to the Holders and make publicly available in accordance with Rule 144(c) promulgated under the Securities Act annual and quarterly financial statements, together with a discussion and analysis of such financial statements in form and substance substantially similar to those that would otherwise be required to be included in reports required by Section 13(a) or 15(d) of the Exchange Act, as well as any other information required thereby, in the time period that such filings would have been required to have been made under the Exchange Act. The Company further covenants that it will take such further action as any Holder may reasonably request, all to the extent required from time to time to enable such Person to sell Shares and Warrant Shares without registration under the Securities Act within the limitation of the exemptions provided by Rule 144 promulgated under the Securities Act, including compliance with the provisions of the Purchase Agreement relating to the transfer of the Shares and Warrant Shares.

(l) The Company may require each selling Holder to furnish to the Company a certified statement as to the number of shares of Common Stock beneficially owned by such Holder and any Affiliate thereof and as to any Financial Industry Regulatory Authority (“FINRA”) affiliations and of any natural persons who have the power to vote or dispose of the Common Stock, and the Company has the right to include such information in any Registration Statement and to otherwise provide such information to the Commission.

(m) If requested by a Holder, the Company shall effect a filing with respect to the public offering contemplated by the Registration Statement (an “Issuer Filing”) with the FINRA Corporate Financing Department pursuant to FINRA Rule 5510(b)(10)(A)(i) within five Trading Days of the date of such request. The Company shall pay the filing fee required by such Issuer Filing and shall use its commercially reasonable efforts to pursue the Issuer Filing until the FINRA issues a letter confirming that it does not object to the terms of the offering contemplated by the Registration Statement. A copy of the Issuer Filing and all related correspondence with respect thereto shall be provided to the Placement Agents and, upon request, to any Holder.

4. **Registration Expenses.** All fees and expenses incident to the Company’s performance of or compliance with its obligations under this Agreement (excluding any underwriting discounts and selling commissions and all legal fees and expenses of legal counsel, accountants and other advisors for any Holder except as specifically provided below) shall be borne by the Company whether or not any Registrable Securities are sold pursuant to a Registration Statement. The fees and expenses referred to in the foregoing sentence shall include, without limitation, (i) all registration and filing fees (including, without limitation, fees and expenses (A) with respect to filings required to be made with the securities exchanges on which the Common Stock is then listed for trading, and (B) in compliance with applicable state securities or Blue Sky laws), (ii) messenger, telephone and delivery expenses, (iii) fees and disbursements of counsel for the Company, (iv) Securities Act liability insurance, if the Company so desires such insurance, and (v) fees and expenses of all other Persons retained by the Company in connection with the consummation of the transactions contemplated by this Agreement. In addition, the Company shall be responsible for all of its internal expenses incurred in connection with the consummation of the transactions contemplated by this Agreement (including, without limitation, all salaries and expenses of its officers and employees performing legal or accounting duties), the expense of any annual audit and the fees and expenses incurred in connection with the listing of the Registrable Securities on any securities exchange as required hereunder. Further, upon request, the Company shall pay the reasonable fees and disbursements of one firm or counsel (which firm or counsel shall be experienced in securities matters and designated by Holders owning a majority of the Registrable Securities) to act as counsel for the Holders in connection with the preparation and filing of the Registration Statement; *provided, however*, that the amount of fees and disbursements reimbursable pursuant to this Section shall be limited to \$10,000 in the aggregate. In no event shall the Company be responsible for any broker or similar commissions or any legal fees, accounting fees, the fees of other advisors or other costs of the Holders.

5. Indemnification.

(a) Indemnification by the Company. The Company shall, notwithstanding any termination of this Agreement, indemnify and hold harmless each Holder, the officers, directors, agents, partners, members, managers, shareholders, Affiliates and employees of each of them, each Person who controls any such Holder (within the meaning of Section 15 of the Securities Act or Section 20 of the Exchange Act) and the officers, directors, partners, members, managers, shareholders, agents and employees of each such controlling Person, to the fullest extent permitted by applicable law, from and against any and all losses, claims, damages, liabilities, costs (including, without limitation, reasonable costs of preparation and investigation and reasonable attorneys' fees) and expenses (collectively, "Losses"), as incurred that arise out of or are based upon: (i) any untrue or alleged untrue statement of a material fact contained in any Registration Statement, any Prospectus or any form of Prospectus or in any amendment or supplement thereto (it being understood that the Holder has approved Annex A hereto for this purpose) or in any preliminary prospectus if used prior to the effective date of such Registration Statement or arising out of or relating to any omission or alleged omission to state a material fact required to be stated therein or necessary to make the statements therein (in the case of any Prospectus or form of prospectus or supplement thereto, in light of the circumstances under which they were made) not misleading, or (ii) any violation or alleged violation by the Company of the Securities Act, Exchange Act or any state securities law, or any rule or regulation thereunder, in connection with the performance of its obligations under this Agreement, except to the extent, but only to the extent, that (A) such untrue statements, alleged untrue statements, omissions or alleged omissions are based upon information regarding such Holder furnished in writing to the Company by such Holder expressly for use therein, or to the extent that such information relates to such Holder or such Holder's proposed method of distribution of Registrable Securities and was reviewed and approved by such Holder expressly for use in the Registration Statement, such Prospectus or such form of Prospectus or in any amendment or supplement thereto (it being understood that each Holder has approved Annex A hereto for this purpose) or (B) in the case of an occurrence of an event of the type specified in Section 3(c)(ii)-(v), the use by a Holder of an outdated or defective Prospectus after the Company has notified such Holder in writing that the Prospectus is outdated or defective and prior to the receipt by such Holder of Advice (as defined in Section 6(d) below), but only if and to the extent that following the receipt of the Advice the misstatement or omission giving rise to such Loss would have been corrected; *provided, however*, that the indemnity agreement contained in this Section 5(a) shall not apply to amounts paid in settlement of any Losses if such settlement is effected without the prior written consent of the Company, which consent shall not be unreasonably withheld. Each Holder shall notify the Company promptly of the institution, threat or assertion of any Proceeding of which the Holder is aware in connection with the transactions contemplated by this Agreement. Such indemnity shall remain in full force and effect regardless of any investigation made by or on behalf of an Indemnified Party (as defined in Section 5(c)) and shall survive the transfer of the Registrable Securities by the Holders.

(b) **Indemnification by Holders.** Each Holder shall, notwithstanding any termination of this Agreement, severally and not jointly, indemnify and hold harmless the Company, its directors, officers, agents and employees, each Person who controls the Company (within the meaning of Section 15 of the Securities Act and Section 20 of the Exchange Act), and the directors, officers, agents or employees of such controlling Persons, to the fullest extent permitted by applicable law, from and against all Losses, as incurred, arising out of or based upon any untrue or alleged untrue statement of a material fact contained in any Registration Statement, any Prospectus, or any form of Prospectus, or in any amendment or supplement thereto, or arising solely out of or based solely upon any omission or alleged omission of a material fact required to be stated therein or necessary to make the statements therein (in the case of any Prospectus, or any form of Prospectus or supplement thereto, in light of the circumstances under which they were made) not misleading to the extent, but only to the extent that, such untrue statements or omissions are based upon information regarding such Holder furnished in writing to the Company by such Holder expressly for use therein, or to the extent that such information relates to such Holder or such Holder's proposed method of distribution of Registrable Securities and was reviewed and approved by such Holder expressly for use in the Registration Statement (it being understood that the Holder has approved Annex A hereto for this purpose), such Prospectus or such form of Prospectus or in any amendment or supplement thereto; *provided, however*, that the indemnity agreement contained in this Section 5(b) shall not apply to amounts paid in settlement of any Losses if such settlement is effected without the prior written consent of the Holder, which consent shall not be unreasonably withheld. In no event shall the liability of any selling Holder hereunder be greater in amount than the dollar amount of the net proceeds received by such Holder upon the sale of the Registrable Securities giving rise to such indemnification obligation.

(c) **Conduct of Indemnification Proceedings.** If any Proceeding shall be brought or asserted against any Person entitled to indemnity hereunder (an "*Indemnified Party*"), such Indemnified Party shall promptly notify the Person from whom indemnity is sought (the "*Indemnifying Party*") in writing, and the Indemnifying Party shall have the right to assume the defense thereof, including the employment of counsel reasonably satisfactory to the Indemnified Party and the payment of all reasonable fees and expenses incurred in connection with defense thereof; *provided*, that the failure of any Indemnified Party to give such notice shall not relieve the Indemnifying Party of its obligations or liabilities pursuant to this Agreement, except (and only) to the extent that it shall be finally determined by a court of competent jurisdiction (which determination is not subject to appeal or further review) that such failure shall have proximately and materially adversely prejudiced the Indemnifying Party.

An Indemnified Party shall have the right to employ separate counsel in any such Proceeding and to participate in the defense thereof, but the fees and expenses of such counsel shall be at the expense of such Indemnified Party or Parties unless: (1) the Indemnifying Party has agreed in writing to pay such fees and expenses; (2) the Indemnifying Party shall have failed promptly to assume the defense of such Proceeding and to employ counsel reasonably satisfactory to such Indemnified Party in any such Proceeding; or (3) the named parties to any such Proceeding (including any impleaded parties) include both such Indemnified Party and the Indemnifying Party, and such Indemnified Party shall have been advised by counsel that a conflict of interest is likely to exist if the same counsel were to represent such Indemnified Party and the Indemnifying Party (in which case, if such Indemnified Party notifies the Indemnifying Party in writing that it elects to employ separate counsel at the expense of the Indemnifying Party, the Indemnifying Party shall not have the right to assume the defense thereof and such counsel shall be at the expense of the Indemnifying Party); *provided*, that the Indemnifying Party shall not be liable for the fees and expenses of more than one separate firm of attorneys at any time for all Indemnified Parties. The Indemnifying Party shall not be liable for any settlement of any such Proceeding effected without its written consent, which consent shall not be unreasonably withheld, delayed or conditioned. No Indemnifying Party shall, without the prior written consent of the Indemnified Party, effect any settlement of any pending Proceeding in respect of which any Indemnified Party is a party, unless such settlement includes an unconditional release of such Indemnified Party from all liability on claims that are the subject matter of such Proceeding.

All fees and expenses of the Indemnified Party (including reasonable fees and expenses to the extent incurred in connection with investigating or preparing to defend such Proceeding in a manner not inconsistent with this Section) shall be paid to the Indemnified Party, as incurred, within twenty Trading Days of written notice thereof to the Indemnifying Party.

(d) Contribution. If a claim for indemnification under Section 5(a) or 5(b) is unavailable to an Indemnified Party (by reason of public policy or otherwise), then each Indemnifying Party, in lieu of indemnifying such Indemnified Party, shall contribute to the amount paid or payable by such Indemnified Party as a result of such Losses, in such proportion as is appropriate to reflect the relative fault of the Indemnifying Party and Indemnified Party in connection with the actions, statements or omissions that resulted in such Losses as well as any other relevant equitable considerations. The relative fault of such Indemnifying Party and Indemnified Party shall be determined by reference to, among other things, whether any action in question, including any untrue or alleged untrue statement of a material fact or omission or alleged omission of a material fact, has been taken or made by, or relates to information supplied by, such Indemnifying Party or Indemnified Party, and the parties' relative intent, knowledge, access to information and opportunity to correct or prevent such action, statement or omission. The amount paid or payable by a party as a result of any Losses shall be deemed to include, subject to the limitations set forth in Section 5(c), any reasonable attorneys' or other reasonable fees or expenses incurred by such party in connection with any Proceeding to the extent such party would have been indemnified for such fees or expenses if the indemnification provided for in this Section was available to such party in accordance with its terms.

The parties hereto agree that it would not be just and equitable if contribution pursuant to this Section 5(d) were determined by pro rata allocation or by any other method of allocation that does not take into account the equitable considerations referred to in the immediately preceding paragraph. Notwithstanding the provisions of this Section 5(d), no Holder shall be required to contribute, in the aggregate, any amount in excess of the amount by which the net proceeds actually received by such Holder from the sale of the Registrable Securities subject to the Proceeding exceeds the amount of any damages that such Holder has otherwise been required to pay by reason of such untrue or alleged untrue statement or omission or alleged omission. No person guilty of fraudulent misrepresentation (within the meaning of Section 11(f) of the Securities Act) shall be entitled to contribution from any Person who was not guilty of such fraudulent misrepresentation.

The indemnity and contribution agreements contained in this Section are in addition to any liability that the Indemnifying Parties may have to the Indemnified Parties and are not in diminution or limitation of the indemnification provisions under the Purchase Agreement.

6. Miscellaneous

(a) Remedies. In the event of a breach by the Company or by a Holder of any of their obligations under this Agreement, each Holder or the Company, as the case may be, in addition to being entitled to exercise all rights granted by law and under this Agreement, including recovery of damages, will be entitled to specific performance of its rights under this Agreement. The Company and each Holder agree that monetary damages would not provide adequate compensation for any losses incurred by reason of a breach by it of any of the provisions of this Agreement and hereby further agrees that, in the event of any action for specific performance in respect of such breach, it shall waive the defense that a remedy at law would be adequate.

(b) Entire Agreement. This Agreement is intended by the parties as a final expression of their agreement and intended to be a complete and exclusive statement of the agreement and understanding of the parties hereto in respect of the subject matter contained herein. This Agreement supersedes all prior agreements and understandings between the parties with respect to such subject matter, except for, and as provided in the Transaction Documents.

(c) Compliance. Each Holder covenants and agrees that it (i) will comply with the prospectus delivery requirements of the Securities Act as applicable to it (unless an exemption therefrom is available) in connection with sales of Registrable Securities pursuant to the Registration Statement provided the Company delivers notice to such Holder in writing that the conditions set forth in Rule 172 of the Securities Act are not met and that, accordingly, such Holder is obligated to deliver prospectus upon such sales, and (ii) shall sell the Registrable Securities only in accordance with a method of distribution described in the Registration Statement.

(d) Discontinued Disposition. Each Holder further agrees by its acquisition of such Registrable Securities that, upon receipt of a notice from the Company of the occurrence of any event of the kind described in Section 3(c)(ii)-(v), such Holder will forthwith discontinue disposition of such Registrable Securities under the Registration Statement until it is advised in writing (the "Advice") by the Company that the use of the applicable Prospectus may be resumed, and, in either case, has received copies of any additional or supplemental filings that are incorporated or deemed to be incorporated by reference in such Prospectus or Registration Statement. The Company may provide appropriate stop orders to enforce the provisions of this paragraph.

(e) Amendments and Waivers. This Agreement may be amended only by a writing signed by all of the parties hereto. The Company may take any action herein prohibited that pertains to or effects a Purchaser, or omit to perform any act herein required to be performed by it that pertains to or effects a Purchaser, only if the Company shall have obtained the written consent to such amendment, action or omission to act, of such Purchaser. No consideration shall be offered or paid to any Holder to amend or consent to a waiver or modification of any provision of this Agreement unless the same consideration also is offered to all of the Holders. Failure of any party to exercise any right or remedy under this Agreement or otherwise or delay by a party in exercising such right or remedy shall not operate as a waiver thereof.

(f) Notices. Any and all notices or other communications or deliveries required or permitted to be provided hereunder shall be in writing and shall be deemed given and effective on the earliest of (i) the date of transmission, if such notice or communication is delivered via facsimile at the facsimile number specified in this Section prior to 5:00 p.m. (New York City time) on a Trading Day, (ii) the next Trading Day after the date of transmission, if such notice or communication is delivered via facsimile or e-mail to the facsimile number or e-mail addressed specified in this Section on a day that is not a Trading Day or later than 5:00 p.m. (New York City time) on any Trading Day, (iii) the Business Day following the date of mailing, if sent by nationally recognized overnight courier service with next day delivery specified, or (iv) upon actual receipt by the party to whom such notice is required to be given. The address for such notices and communications shall be as follows:

If to the Company:

ZIOPHARM Oncology, Inc.
1180 Avenue of the Americas
19th Floor
New York, New York 10036
Facsimile: (646) 214-0711
Attn: Jonathan Lewis, M.D., Ph.D.

With a copy to:

Maslon Edelman Borman & Brand, LLP
3300 Wells Fargo Center
90 South Seventh Street
Minneapolis, MN 55402
Facsimile: (612) 672-8397
Attn: Alan M. Gilbert, Esq.

If to a Purchaser:	To the address set forth under such Purchaser's name on the signature pages hereof.
If to any other Person who is then the registered Holder:	To the address of such Holder as it appears in the stock transfer books of the Company or such other address as may be designated in writing hereafter, in the same manner, by such Person.

provided, that any party may change its address for notices by providing written notice to the other parties in the manner prescribed by this Section.

(g) Successors and Assigns. This Agreement shall inure to the benefit of and be binding upon the successors and permitted assigns of each of the parties and shall inure to the benefit of each Holder. The Company may not assign its rights or obligations hereunder without the prior written consent of each Holder. The rights of the Holders hereunder, including the right to have the Company register Registrable Securities pursuant to this Agreement, may be assigned by each Holder to transferees or assignees of all or any portion of the Registrable Securities, but only if (i) the Holder agrees in writing with the transferee or assignee to assign such rights, and a copy of such agreement is furnished to the Company within a reasonable time after such assignment, (ii) the Company is, within a reasonable time after such transfer or assignment, furnished with written notice of the name and address of such transferee or assignee and the securities with respect to which such registration rights are being transferred or assigned, (iii) at or before the time the Company received the written notice contemplated by clause (ii) of this sentence, the transferee or assignee agrees in writing with the Company to be bound by all of the provisions contained herein and (iv) the transferee is an "accredited investor," as that term is defined in Rule 501 of Regulation D.

(h) Execution and Counterparts. This Agreement may be executed in any number of counterparts, each of which when so executed shall be deemed to be an original and, all of which taken together shall constitute one and the same Agreement. In the event that any signature is delivered by facsimile transmission or by e-mail delivery of a ".pdf" format file, such signature shall create a valid binding obligation of the party executing (or on whose behalf such signature is executed) the same with the same force and effect as if such facsimile signature were the original thereof.

(i) Governing Law. All questions concerning the construction, validity, enforcement and interpretation of this Agreement shall be governed by and construed and enforced in accordance with the internal laws of the State of New York, without regard to the principles of conflicts of law thereof. Each party agrees that all Proceedings concerning the interpretations, enforcement and defense of the transactions contemplated by this Agreement (whether brought against a party hereto or its respective Affiliates, employees or agents) will be commenced in the New York Courts. Each party hereto hereby irrevocably submits to the exclusive jurisdiction of the New York Courts for the adjudication of any dispute hereunder or in connection herewith or with any transaction contemplated hereby or discussed herein, and hereby irrevocably waives, and agrees not to assert in any Proceeding, any claim that it is not personally subject to the jurisdiction of any New York Court, or that such Proceeding has been commenced in an improper or inconvenient forum. Each party hereto hereby irrevocably waives personal service of process and consents to process being served in any such Proceeding by mailing a copy thereof via registered or certified mail or overnight delivery (with evidence of delivery) to such party at the address in effect for notices to it under this Agreement and agrees that such service shall constitute good and sufficient service of process and notice thereof. Nothing contained herein shall be deemed to limit in any way any right to serve process in any manner permitted by law. **EACH PARTY HERETO HEREBY IRREVOCABLY WAIVES, TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, ANY AND ALL RIGHT TO TRIAL BY JURY IN ANY PROCEEDING ARISING OUT OF OR RELATING TO THIS AGREEMENT OR THE TRANSACTIONS CONTEMPLATED HEREBY.** If either party shall commence a Proceeding to endorse any provisions of this Agreement, then the prevailing party in such Proceeding shall be reimbursed by the other party for its reasonable attorneys' fees and other costs and expenses incurred with the investigation preparation and prosecution of such Proceeding.

(j) Cumulative Remedies. The remedies provided herein are cumulative and not exclusive of any remedies provided by law.

(k) Severability. If any term, provision, covenant or restriction of this Agreement is held by a court of competent jurisdiction to be invalid, illegal, void or unenforceable, the remainder of the terms, provisions, covenants and restrictions set forth herein shall remain in full force and effect and shall in no way be affected, impaired or invalidated, and the parties hereto shall use their reasonable efforts to find and employ an alternative means to achieve the same or substantially the same result as that contemplated by such term, provision, covenant or restriction. It is hereby stipulated and declared to be the intention of the parties that they would have executed the remaining terms, provisions, covenants and restrictions without including any of such that may be hereafter declared invalid, illegal, void or unenforceable.

(l) Headings. The headings in this Agreement are for convenience of reference only and shall not limit or otherwise affect the meaning hereof.

(m) Independent Nature of Purchasers' Obligations and Rights. The obligations of each Purchaser under this Agreement are several and not joint with the obligations of any other Purchaser hereunder, and no Purchaser shall be responsible in any way for the performance of the obligations of any other Purchaser hereunder. The decision of each Purchaser to purchase Securities pursuant to the Transaction Documents has been made independently of any other Purchaser. Nothing contained herein or in any other agreement or document delivered at any closing, and no action taken by any Purchaser pursuant hereto or thereto, shall be deemed to constitute the Purchasers as a partnership, an association, a joint venture or any other kind of entity, or create a presumption that the Purchasers are in any way acting in concert with respect to such obligations or the transactions contemplated by this Agreement. Each Purchaser acknowledges that no other Purchaser has acted as agent for such Purchaser in connection with making its investment hereunder and that no Purchaser will be acting as agent of such Purchaser in connection with monitoring its investment in the Securities or enforcing its rights under the Transaction Documents. Each Purchaser shall be entitled to protect and enforce its rights, including, without limitation, the rights arising out of this Agreement, and it shall not be necessary for any other Purchaser to be joined as an additional party in any Proceeding for such purpose. The Company acknowledges that each of the Purchasers has been provided with the same Registration Rights Agreement for the purpose of closing a transaction with multiple Purchasers and not because it was required or requested to do so by any Purchaser.

(n) Currency. Unless otherwise indicated, all dollar amounts referred to in this Agreement are in United States Dollars. All amounts owing under this Agreement are in United States Dollars. All amounts denominated in other currencies shall be converted in the United States dollar equivalent amount in accordance with the applicable exchange rate in effect on the date of calculation.

(o) Further Assurances. The parties shall execute and deliver all such further instruments and documents and take all such other actions as may reasonably be required to carry out the transactions contemplated hereby and to evidence the fulfillment of the agreements herein contained.

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SIGNATURE PAGES TO FOLLOW]

IN WITNESS WHEREOF, the parties have executed this Registration Rights Agreement as of the date first written above.

ZIOPHARM ONCOLOGY, INC.

By: _____

Name:

Title:

[REMAINDER OF PAGE INTENTIONALLY LEFT BLANK
SIGNATURE PAGES OF HOLDERS TO FOLLOW]

IN WITNESS WHEREOF, the parties have executed this Registration Rights Agreement as of the date first written above.

NAME OF INVESTING ENTITY

AUTHORIZED SIGNATORY

By:

Name:

Title:

ADDRESS FOR NOTICE

c/o:

Street:

City/State/Zip:

Attention:

Tel:

Fax:

Email:

PLAN OF DISTRIBUTION

We are registering the shares of Common Stock issued to the selling shareholders and issuable upon exercise of the warrants to permit the resale of these shares of Common Stock by the holders of the shares of Common Stock and warrants from time to time after the date of this prospectus. We will not receive any of the proceeds from the sale by the selling shareholders of the shares of Common Stock. We will bear all fees and expenses incident to our obligation to register the shares of Common Stock.

The selling shareholders may sell all or a portion of the shares of Common Stock beneficially owned by them and offered hereby from time to time directly or through one or more underwriters, broker-dealers or agents. If the shares of Common Stock are sold through underwriters or broker-dealers, the selling shareholders will be responsible for underwriting discounts or commissions or agent's commissions. The shares of Common Stock may be sold in one or more transactions at fixed prices, at prevailing market prices at the time of the sale, at varying prices determined at the time of sale, or at negotiated prices. These sales may be effected in transactions, which may involve crosses or block transactions. The selling shareholders may use any one or more of the following methods when selling shares:

- on any national securities exchange or quotation service on which the securities may be listed or quoted at the time of sale;
- in the over-the-counter market;
- in transactions otherwise than on these exchanges or systems or in the over-the-counter market;
- through the writing of options, whether such options are listed on an options exchange or otherwise;
- ordinary brokerage transactions and transactions in which the broker-dealer solicits purchasers;
- block trades in which the broker-dealer will attempt to sell the shares as agent but may position and resell a portion of the block as principal to facilitate the transaction;
- purchases by a broker-dealer as principal and resale by the broker-dealer for its account;
- an exchange distribution in accordance with the rules of the applicable exchange;
- privately negotiated transactions;
- settlement of short sales entered into after the effective date of the registration statement of which this prospectus is a part;
- broker-dealers may agree with the selling securityholders to sell a specified number of such shares at a stipulated price per share;
- a combination of any such methods of sale; and
- any other method permitted pursuant to applicable law.

The selling shareholders may also sell shares under Rule 144 under the Securities Act, if available, rather than under this prospectus.

Broker-dealers engaged by the selling shareholders may arrange for other brokers-dealers to participate in sales. If the selling shareholders effect such transactions by selling shares of Common Stock to or through underwriters, broker-dealers or agents, such underwriters, broker-dealers or agents may receive commissions in the form of discounts, concessions or commissions from the selling shareholders or commissions from purchasers of the shares of Common Stock for whom they may act as agent or to whom they may sell as principal. Such commissions will be in amounts to be negotiated, but, except as set forth in a supplement to this Prospectus, in the case of an agency transaction will not be in excess of a customary brokerage commission in compliance with FINRA Rule 2440; and in the case of a principal transaction a markup or markdown in compliance with FINRA IM-2440 or the successor to such FINRA rules.

In connection with sales of the shares of Common Stock or otherwise, the selling shareholders may enter into hedging transactions with broker-dealers or other financial institutions, which may in turn engage in short sales of the shares of Common Stock in the course of hedging in positions they assume. The selling shareholders may also sell shares of Common Stock short and if such short sale shall take place after the date that this Registration Statement is declared effective by the Commission, the selling stockholders may deliver shares of Common Stock covered by this prospectus to close out short positions and to return borrowed shares in connection with such short sales. The selling shareholders may also loan or pledge shares of Common Stock to broker-dealers that in turn may sell such shares. The selling stockholders may also enter into option or other transactions with broker-dealers or other financial institutions or the creation of one or more derivative securities which require the delivery to such broker-dealer or other financial institution of shares offered by this prospectus, which shares such broker-dealer or other financial institution may resell pursuant to this prospectus (as supplemented or amended to reflect such transaction).

The selling shareholders may pledge or grant a security interest in some or all of the warrants or shares of Common Stock owned by them and, if they default in the performance of their secured obligations, the pledgees or secured parties may offer and sell the shares of Common Stock from time to time pursuant to this prospectus or any amendment to this prospectus under Rule 424(b)(3) or other applicable provision of the Securities Act of 1933, as amended, amending, if necessary, the list of selling shareholders to include the pledgee, transferee or other successors in interest as selling shareholders under this prospectus. The selling shareholders also may transfer and donate the shares of Common Stock in other circumstances in which case the transferees, donees, pledgees or other successors in interest will be the selling beneficial owners for purposes of this prospectus.

The selling shareholders and any broker-dealer participating in the distribution of the shares of Common Stock may be deemed to be “underwriters” within the meaning of the Securities Act, and any commission paid, or any discounts or concessions allowed to, any such broker-dealer may be deemed to be underwriting commissions or discounts under the Securities Act. At the time a particular offering of the shares of Common Stock is made, a prospectus supplement, if required, will be distributed which will set forth (i) the name of each such selling stockholder and of the participating broker-dealer(s), (ii) the number of shares involved, (iii) the price at which such the shares of Common Stock were sold, (iv) the commissions paid or discounts or concessions allowed to such broker-dealer(s), where applicable, (v) that such broker-dealer(s) did not conduct any investigation to verify the information set out or incorporated by reference in this prospectus, and (vi) other facts material to the transaction. In no event shall any broker-dealer receive fees, commission and markups which, in the aggregate, would exceed eight percent (8%). In addition, upon the Company being notified in writing by a Selling Stockholder that a donee or pledgee intends to sell more than 500 shares of Common Stock, a supplement to this prospectus will be filed if then required in accordance with applicable securities law.

Under the securities laws of some states, the shares of Common Stock may be sold in such states only through registered or licensed brokers or dealers. In addition, in some states the shares of Common Stock may not be sold unless such shares have been registered or qualified for sale in such state or an exemption from registration or qualification is available and is complied with.

There can be no assurance that any selling shareholder will sell any or all of the shares of Common Stock registered pursuant to the shelf registration statement, of which this prospectus forms a part.

We have advised each selling stockholder that it may not use shares registered on the registration statement of which this prospectus is a part to cover short sales of common stock made prior to the date on which the registration statement shall have been declared effective by the Securities and Exchange Commission. If a selling stockholder uses this prospectus for any sale of shares of our common stock, it will be subject to the prospectus delivery requirements of the Securities Act. The selling shareholders and any other person participating in such distribution will be subject to applicable provisions of the Securities Exchange Act of 1934, as amended, and the rules and regulations thereunder, including, without limitation, Regulation M of the Exchange Act, which may limit the timing of purchases and sales of any of the shares of Common Stock by the selling shareholders and any other participating person. Regulation M may also restrict the ability of any person engaged in the distribution of the shares of Common Stock to engage in market-making activities with respect to the shares of Common Stock. All of the foregoing may affect the marketability of the shares of Common Stock and the ability of any person or entity to engage in market-making activities with respect to the shares of Common Stock.

We will pay all expenses of the registration of the shares of Common Stock pursuant to the registration rights agreement, including, without limitation, Securities and Exchange Commission filing fees and expenses of compliance with state securities or “blue sky” laws; *provided, however*, that a selling shareholder will pay all underwriting discounts and selling commissions, if any and any related legal expenses incurred by it. We will indemnify the selling shareholders against liabilities, including some liabilities under the Securities Act, in accordance with the registration rights agreements, or the selling shareholders will be entitled to contribution. We may be indemnified by the selling shareholders against civil liabilities, including liabilities under the Securities Act, that may arise from any written information furnished to us by the selling shareholder specifically for use in this prospectus, in accordance with the related registration rights agreements, or we may be entitled to contribution.



ZIOPHARM Oncology, Inc.

ZIOPHARM Announces At Market Private Placement of \$5.05 Million

NEW YORK, NY – September 9, 2009 - ZIOPHARM Oncology, Inc. (NASDAQ: ZIOP) announced today that it has entered into definitive agreements with both existing and new investors to raise approximately \$5.05 million in gross proceeds, before deducting placement agent fees and estimated offering expenses, in a private placement that was priced “at market.” Upon closing of the private placement, the Company will issue units consisting of one share of common stock and a warrant to purchase one share of common stock, with the purchase price per unit of \$1.825. Pursuant to the agreements governing the private placement, the Company will issue approximately 2.77 million shares of common stock and warrants to purchase approximately 2.77 million additional shares of common stock in the aggregate. The closing of the offering is subject to certain conditions, and is expected to occur on or around September 15, 2009.

Rodman & Renshaw, LLC, a subsidiary of Rodman & Renshaw Capital Group, Inc., (Nasdaq: RODM - News), acted as the exclusive placement agent for the transaction, with Riverbank Capital Securities, Inc. and Griffin Securities, Inc. serving as sub-agents.

The Company intends to use the proceeds from the financing for working capital and general corporate purposes, including ongoing clinical development of its three product candidates, palifosfamide (Zymafos™ or ZIO-201), darinaparsin (Zinapar™ or ZIO-101), and indibulin (Zybulin™ or ZIO-301).

The securities sold in the private placement have not been registered under the Securities Act of 1933, as amended, and may not be offered or sold in the United States absent registration under such act and applicable state securities laws or an applicable exemption from those registration requirements. The Company has agreed to file a registration statement covering the resale of the shares issued in the private placement, including the shares issuable upon exercise of the warrants. This press release shall not constitute an offer to sell or the solicitation of an offer to buy these securities, nor shall there be any sale of these securities in any jurisdiction in which such offer, solicitation or sale would be unlawful prior to the registration or qualification under the securities laws of any such jurisdiction.

About ZIOPHARM Oncology, Inc.:

ZIOPHARM Oncology is a biopharmaceutical company engaged in the development and commercialization of a diverse portfolio of cancer drugs. The Company is currently focused on three clinical programs.

Palifosfamide (Zymafos™ or ZIO-201) references a novel composition (tris formulation) that is the functional active metabolite of ifosfamide, a standard of care for treating sarcoma, lymphoma, testicular, and other cancers. Palifosfamide delivers only the cancer fighting component of ifosfamide. It is expected to overcome the resistance seen with ifosfamide and cyclophosphamide, two of the most commonly used alkylating drugs used to treat certain cancers. Palifosfamide does not have the toxic metabolites of ifosfamide that cause the debilitating side effects of “fuzzy brain” (encephalopathy) and severe bladder inflammation. Intravenous palifosfamide is currently in a randomized Phase II trial to treat unresectable or metastatic soft tissue sarcoma in the front- and second-line setting, a study expected to establish the basis for a registration trial as early as the first half of 2010. An oral form of palifosfamide has been developed preclinically to the investigational new drug application stage.

Indibulin (Zybulin™ or ZIO-301) is a novel, oral tubulin binding agent that targets both mitosis and cancer cell migration. Indibulin is expected to have several potential benefits, including oral dosing, application in multi-drug resistant tumors, no neuropathy and minimal overall toxicity. In multiple Phase I trials in cancer patients, oral indibulin has been administered both as a single agent and in combination with favorable activity and a promising safety profile that does not include the neurotoxicity seen with all of the other classes of tubulin binding agents. Most recently, results of oral indibulin in combination with oral capecitabine (Xeloda®) were presented at this year’s American Society of Clinical Oncology (ASCO) along with the preclinical findings of a novel dosing schedule conducted under the direction of Dr. Larry Norton. The Company expects to initiate a Phase I/II study of oral indibulin in breast cancer patients employing this dosing schedule established preclinically. Once the maximum tolerated dose is established in the phase I portion of the trial, Phase II will proceed with an expanded population.

Darinaparsin (Zinapar™ or ZIO-101) is a novel organic arsenic being developed for the treatment of various hematologic and solid cancers. Preclinical and clinical studies to date have demonstrated that darinaparsin is considerably less toxic than inorganic arsenic, particularly with regard to cardiac toxicity. Phase I and Phase II testing of the intravenous form of darinaparsin in solid tumors and hematological cancers has been completed or is nearing completion. The Company has reported clinical activity and, importantly, a safety profile from these studies as predicted by preclinical results. Favorable results from the trial with IV-administered darinaparsin in lymphoma, particularly peripheral T-cell lymphoma (“PTCL”), were reported at the American Society of Clinical Oncology (“ASCO”) in May. Supported by these data, the Company expects to advance into a registration trial in peripheral T-cell lymphoma as early as the first half of 2010. Also as reported at ASCO, in ongoing Phase I trials the oral form is active and well tolerated.

ZIOPHARM’s operations are located in Boston, MA with an executive office in New York. Further information about ZIOPHARM may be found at www.ziopharm.com.

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Forward-Looking Safe Harbor Statement:

This press release contains forward-looking statements for ZIOPHARM Oncology, Inc. that involve risks and uncertainties that could cause the Company's actual results to differ materially from the anticipated results and expectations expressed in these forward-looking statements. These statements are based on current expectations, forecasts and assumptions that are subject to risks and uncertainties, which could cause actual outcomes and results to differ materially from these statements. Among other things, there can be no assurance that any of the Company's development efforts relating to its product candidates will be successful, or such product candidates will be successfully commercialized. Other risks that affect forward-looking information contained in this press release include the possibility of being unable to obtain regulatory approval of the Company's product candidates, the risk that the results of clinical trials may not support the Company's claims, risks related to the Company's ability to protect its intellectual property and its reliance on third parties to develop its product candidates, risks related to the sufficiency of existing capital reserves to fund continued operations for a particular amount of time and uncertainties regarding the Company's ability to obtain additional financing to support its operations thereafter. The Company assumes no obligation to update these forward-looking statements, except as required by law.

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