

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

SCHEDULE 13D
(Rule 13d-102)

INFORMATION TO BE INCLUDED IN STATEMENTS FILED PURSUANT
TO RULE 13d-1(a) AND AMENDMENTS THERETO FILED
PURSUANT TO RULE 13d-2(a)

(Amendment No. 3)

ACCESS PHARMACEUTICALS, INC.

(Name of Issuer)

COMMON STOCK, PAR VALUE \$0.01

(Title of Class of Securities)

00431M 30 8

(CUSIP Number)

Steven H. Rouhandeh
SCO Capital Partners LLC
1285 Avenue of the Americas, 35th Floor
New York, New York 10019
(212) 554-4158

(Name, Address and Telephone Number of Person Authorized to Receive Notices and Communications)

November 10, 2007

(Date of Event which Requires Filing of this Statement)

If the filing person has previously filed a statement on Schedule 13G to report the acquisition that is the subject of this Schedule 13D, and is filing this schedule because of Rule 13d-1(e), 13d-1(f) or 13d-1(g), check the following box .

(Continued on following pages)

(Page 1 of 13 Pages)

1. NAMES OF REPORTING PERSONS
IRS IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)
- SCO Capital Partners LLC
2. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a)
(see instructions) (b)
3. SEC USE ONLY
4. SOURCE OF FUNDS (see instructions)
- OO
5. CHECK IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED
PURSUANT TO ITEM 2(d) or 2(e)
6. CITIZENSHIP OR PLACE OF ORGANIZATION
- | | | | |
|--------------|--|------------------------------|--|
| Delaware | | 7. SOLE VOTING POWER | |
| NUMBER OF | | 9,912,710 | |
| SHARES | | 8. SHARED VOTING POWER | |
| BENEFICIALLY | | 0 | |
| OWNED BY | | 9. SOLE DISPOSITIVE POWER | |
| EACH | | 9,912,710 | |
| REPORTING | | 10. SHARED DISPOSITIVE POWER | |
| PERSON WITH | | 0 | |
11. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON
9,912,710
12. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES
CERTAIN SHARES (see instructions)
13. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 11
73.5%
14. TYPE OF REPORTING PERSON (see instructions)
PN
-

- 1. NAMES OF REPORTING PERSONS
IRS IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)

SCO Capital Partners, L.P.
 - 2. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (see instructions) (a)
(b)
 - 3. SEC USE ONLY
 - 4. SOURCE OF FUNDS (see instructions)
OO
 - 5. CHECK IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(d) or 2(e)
 - 6. CITIZENSHIP OR PLACE OF ORGANIZATION
Delaware
 - 7. SOLE VOTING POWER
 - NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH
 - 1,000,000
 - 8. SHARED VOTING POWER
 - 0
 - 9. SOLE DISPOSITIVE POWER
 - 1,000,000
 - 10. SHARED DISPOSITIVE POWER
 - 0
 - 11. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON
1,000,000
 - 12. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (see instructions)
 - 13. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 11
21.9%
 - 14. TYPE OF REPORTING PERSON (see instructions)
PN
-

1. NAMES OF REPORTING PERSONS
 IRS IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)

Beach Capital LLC

2. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP
 (see instructions)

(a)

(b)

3. SEC USE ONLY

4. SOURCE OF FUNDS (see instructions)

OO

5. CHECK IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED
 PURSUANT TO ITEM 2(d) or 2(e)

6. CITIZENSHIP OR PLACE OF ORGANIZATION

New York

NUMBER OF
 SHARES

7. SOLE VOTING POWER

BENEFICIALLY
 OWNED BY
 EACH

949,496

8. SHARED VOTING POWER

REPORTING
 PERSON WITH

0

9. SOLE DISPOSITIVE POWER

949,496

10. SHARED DISPOSITIVE POWER

0

11. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

949,496

12. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES
 CERTAIN SHARES (see instructions)

13. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 11

21.0%

14. TYPE OF REPORTING PERSON (see instructions)

PN

1. NAMES OF REPORTING PERSONS
IRS IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)

SCO Securities LLC

2. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP
(see instructions)

(a)

(b)

3. SEC USE ONLY

4. SOURCE OF FUNDS (see instructions)

OO

5. CHECK IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED
PURSUANT TO ITEM 2(d) or 2(e)

6. CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware

NUMBER OF
SHARES

7. SOLE VOTING POWER

BENEFICIALLY
OWNED BY
EACH

0

8. SHARED VOTING POWER

REPORTING
PERSON WITH

0

9. SOLE DISPOSITIVE POWER

0

10. SHARED DISPOSITIVE POWER

0

11. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

0

12. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES
CERTAIN SHARES (see instructions)

13. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 11

0%

14. TYPE OF REPORTING PERSON (see instructions)

BD

1. NAMES OF REPORTING PERSONS
IRS IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)

Steven H. Rouhandeh
2. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (see instructions) (a)
(b)
3. SEC USE ONLY
4. SOURCE OF FUNDS (see instructions)

OO
5. CHECK IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(d) or 2(e)
6. CITIZENSHIP OR PLACE OF ORGANIZATION

United States
7. SOLE VOTING POWER
11,862,206
8. SHARED VOTING POWER
0
9. SOLE DISPOSITIVE POWER
11,862,206
10. SHARED DISPOSITIVE POWER
0
11. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON
11,862,206
12. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (see instructions)
13. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 11
76.8%
14. TYPE OF REPORTING PERSON (see instructions)

IN

Item 1. Security and Issuer.

This Amendment No. 3 to Schedule 13D (“Amended Schedule 13D”) is being filed with respect to the common stock, par value \$.01 per share (the “Common Stock”) of Access Pharmaceuticals, Inc., a Delaware corporation (“Access” or the “Company”). The principal executive offices of the Company are located at 2600 Stemmons Freeway, Suite 176, Dallas, Texas 75207. The share amounts and warrant exercise prices set forth herein reflect the 1 for 5 reverse split of the Company’s Common Stock effected on June 2, 2006.

This Amended Schedule 13D is being filed pursuant to Section 13(d) of the Securities Exchange Act of 1934, as amended, and the rules and regulations promulgated thereunder (the “Exchange Act”).

Item 2. Identity and Background.

(a) This Amended Schedule 13D is filed by (i) Steven H. Rouhandeh (“Mr. Rouhandeh”), (ii) SCO Capital Partners LLC, a limited liability company organized under the laws of the State of Delaware (“SCO”), (iii) SCO Capital Partners, L.P., a limited partnership organized under the laws of the State of Delaware (“SCO LP”), (iv) Beach Capital, LLC, a limited liability company organized under the laws of the State of New York (“Beach”), and (v) SCO Securities LLC, a limited liability company organized under the laws of the State of Delaware (“SCO Securities”). Mr. Rouhandeh, SCO, SCO LP, Beach and SCO Securities are collectively referred to herein as the “Reporting Persons.”

(b) The Reporting Persons’ business address is 1285 Avenue of the Americas, 35th Floor, New York, New York 10019.

(c) The principal business of Mr. Rouhandeh is to serve as the Chairman and managing member of SCO, managing member of Beach and managing member of the entity that serves as sole member of SCO Securities. The principal business of each of SCO, SCO LP and Beach is to invest in biotechnology companies. The principal business of SCO Securities is to provide certain broker-dealer services to biotechnology companies.

(d) During the last five years, none of the Reporting Persons have been convicted in a criminal proceeding (excluding traffic violations or similar misdemeanors).

(e) During the last five years, none of the Reporting Persons have been a party to a civil proceeding of a judicial or administrative body of competent jurisdiction that resulted in a judgment, decree or final order enjoining future violations of, or prohibiting or mandating activities subject to, Federal or State securities laws or finding any violation with respect to such laws.

(f) Mr. Rouhandeh is a United States citizen. SCO and SCO Securities are each a limited liability company organized under the laws of the State of Delaware. SCO LP is a limited partnership organized under the laws of the State of Delaware. Beach is a limited liability company organized under the laws of the State of New York.

Item 3. Source and Amount of Funds or Other Consideration.

On February 16, 2006 upon closing of a private placement financing pursuant to which SCO Securities acted as placement agent (the “Private Placement”), Access issued to SCO \$4,000,000 principal amount of its 7.5% Secured Convertible Promissory Notes due March 31, 2007 (“First Convertible Notes”) and

warrants to purchase an aggregate of 2,727,272 shares of Common Stock at an exercise price of \$1.32 per share, for aggregate consideration paid in cash by SCO to the Company of \$4,000,000. The warrants expire six years from the date of issuance. The issuance of the First Convertible Notes and warrants was exempt from registration under Regulation D promulgated under the Securities Act or Section 4(2) of the Securities Act. The source of funds for the purchased securities was internal capital of SCO.

In addition, SCO Securities allocated to SCO a warrant to purchase 272,727 shares of Common Stock at an exercise price of \$1.32 per share to which SCO Securities was entitled as consideration for services rendered as placement agent in the Private Placement. The terms of such warrant are the same as the terms of the warrants issued to the other purchasers in the Private Placement. The warrants expire six years from the date of issuance. The issuance of these warrants was exempt from registration under Regulation D promulgated under the Securities Act or Section 4(2) of the Securities Act. No cash consideration was paid by SCO or SCO Securities to the Company in connection with the issuance of these warrants.

On February 16, 2006 upon closing of the Private Placement, Access issued to Beach \$500,000 principal amount of its First Convertible Notes and warrants to purchase an aggregate of 340,909 shares of Common Stock at an exercise price of \$1.32 per share, for aggregate consideration paid in cash by Beach to the Company of \$500,000. The warrants expire six years from the date of issuance. The issuance of the First Convertible Notes and warrants was exempt from registration under Regulation D promulgated under the Securities Act or Section 4(2) of the Securities Act. The source of funds for the purchased securities was internal capital of Beach.

On October 24, 2006 upon closing of a second private placement financing pursuant to which SCO Securities acted as placement agent (the "Second Private Placement"), Access issued to SCO \$400,000 principal amount of its 7.5% Secured Convertible Promissory Notes due March 31, 2007 ("Second Convertible Notes") and warrants to purchase an aggregate of 272,727 shares of Common Stock at an exercise price of \$1.32 per share, for aggregate consideration paid in cash by SCO to the Company of \$400,000. The warrants expire six years from the date of issuance. The issuance of the Second Convertible Notes and warrants was exempt from registration under Regulation D promulgated under the Securities Act or Section 4(2) of the Securities Act. The source of funds for the purchased securities was internal capital of SCO.

In addition, SCO Securities allocated to SCO a warrant to purchase 36,364 shares of Common Stock at an exercise price of \$1.32 per share to which SCO Securities was entitled as consideration for services rendered as placement agent in the Second Private Placement. The terms of such warrant are the same as the terms of the warrants issued to the other purchaser in the Second Private Placement. The warrants expire six years from the date of issuance. The issuance of these warrants was exempt from registration under Regulation D promulgated under the Securities Act or Section 4(2) of the Securities Act. No cash consideration was paid by SCO or SCO Securities to the Company in connection with the issuance of these warrants.

On December 6, 2006 upon closing of a third private placement financing pursuant to which SCO Securities acted as placement agent (the "Third Private Placement"), Access issued to SCO \$400,000 principal amount of its 7.5% Secured Convertible Promissory Notes due March 31, 2007 ("Third Convertible Notes" and together with the First Convertible Notes and Second Convertible Notes, the "Convertible Notes") and warrants to purchase an aggregate of 272,727 shares of Common Stock at an exercise price of \$1.32 per share, for aggregate consideration paid in cash by SCO to the Company of \$400,000. The warrants expire six years from the date of issuance. The issuance of the Third Convertible Notes and warrants was exempt from registration under Regulation D promulgated under the Securities Act or Section 4(2) of the Securities Act. The source of funds for the purchased securities was internal capital of SCO.

In addition, SCO Securities allocated to SCO a warrant to purchase 18,182 shares of Common Stock at an exercise price of \$1.32 per share to which SCO Securities was entitled as consideration for services rendered as placement agent in the Third Private Placement. The terms of such warrant are the same as the terms of the warrants issued to the other purchaser in the Third Private Placement. The warrants expire six years from the date of issuance. The issuance of these warrants was exempt from registration under Regulation D promulgated under the Securities Act or Section 4(2) of the Securities Act. No cash consideration was paid by SCO or SCO Securities to the Company in connection with the issuance of these warrants.

On November 10, 2007 upon closing of a fourth private placement financing pursuant to which SCO Securities acted as placement agent (the "Fourth Private Placement"), Access issued to SCO 1,568.8409 shares of its Series A Cumulative Convertible Preferred Stock, liquidation preference \$10,000 per share ("Series A Preferred Stock") and warrants to purchase an aggregate of 1,064,292 shares of Common Stock at an exercise price of \$3.50 per share, for aggregate consideration paid in the form of the cancellation in full of all Convertible Notes held by SCO (including all principal and interest thereunder) and an additional cash payment by SCO to the Company of \$1,000,000. The warrants expire six years from the date of issuance. The issuance of the Series A Preferred Stock and warrants was exempt from registration under Regulation D promulgated under the Securities Act or Section 4(2) of the Securities Act. The source of funds for the purchased securities was internal capital of SCO and exchange of the Convertible Notes. Following the consummation of the Fourth Private Placement, SCO no longer holds any Convertible Notes.

On November 10, 2007 upon closing of the Fourth Private Placement, Access issued to SCO LP 200 shares of its Series A Preferred Stock and warrants to purchase an aggregate of 333,333 shares of Common Stock at an exercise price of \$3.50 per share, for aggregate consideration paid in cash by SCO LP to the Company of \$2,000,000. The warrants expire six years from the date of issuance. The issuance of the Series A Preferred Stock and warrants was exempt from registration under Regulation D promulgated under the Securities Act or Section 4(2) of the Securities Act. The source of funds for the purchased securities was internal capital of SCO LP.

On November 10, 2007 upon closing of the Fourth Private Placement, Access issued to Beach 154.2898 shares of its Series A Preferred Stock and warrants to purchase an aggregate of 94,288 shares of Common Stock at an exercise price of \$3.50 per share, for aggregate consideration paid in the form of the cancellation in full of all Convertible Notes held by Beach (including all principal and interest thereunder). The warrants expire six years from the date of issuance. The issuance of the Series A Preferred Stock and warrants was exempt from registration under Regulation D promulgated under the Securities Act or Section 4(2) of the Securities Act. The source of funds for the purchased securities was the exchange of Convertible Notes. Following the consummation of the Fourth Private Placement, Beach no longer holds any Convertible Notes.

SCO also owns warrants to purchase 18,949 shares of Common Stock at an exercise price of \$27.00 per share that were received by SCO Securities on February 23, 2004 as consideration for placement agent services rendered to the Company and subsequently were allocated to SCO. These warrants expire five years from the date of issuance.

Item 4. Purpose of Transaction.

Each of the Reporting Persons purchased their Access securities for investment purposes. Each of the Reporting Persons may acquire additional shares of Common Stock from time to time, in open market purchases, negotiated transactions or otherwise, and may sell any or all of such shares of Common Stock at any time.

Pursuant to the Convertible Note and Warrant Purchase Agreement, dated February 16, 2006, among the Company and each of the other parties described therein (the "Purchase Agreement"), on June 2, 2006, the Company effected a 1 for 5 reverse stock split with respect to its Common Stock as approved by the Company's stockholders at a meeting held on May 19, 2006. As a result of the 1 for 5 reverse stock split, each five shares of outstanding Common Stock were exchanged for one new share of the Company's Common Stock. All of the share numbers and warrant exercise prices reported in this Amended Schedule 13D reflect the effectiveness of this 1 for 5 reverse stock split.

Effective immediately upon the consummation of the exchange of Convertible Notes in the Fourth Private Placement (the "Note Exchange") and continuing for as long as SCO and its Affiliates (as defined below) hold at least 20% of the aggregate number of shares of the Series A Preferred Stock issued to SCO and its Affiliates in connection with the Note Exchange or at least 20% of the Conversion Shares issued upon conversion of such Series A Preferred Stock, (a) SCO shall have the right, from time to time, to designate two individuals, in the sole discretion of SCO, to serve as directors of the Company (the "SCO Director Designees"), (b) the Company shall use its best efforts at all times to cause the number of directors to be fixed at a sufficient number such that at least two positions shall be available for the SCO Director Designees (the "SCO Board Seats"), (c) the Company shall use its best efforts to cause the SCO Director Designees to be nominated and elected for service as directors of the Company at each meeting of the Company's shareholders held for the purpose of electing directors and (d) if at any time, or from time to time, one or more of the SCO Board Seats is or becomes vacant for any reason prior to the next annual meeting of shareholders, the Company shall use its best efforts to cause such vacancy to be filled with an SCO Director Designee. For purposes of the foregoing sentence, an "Affiliate" means any Person (as such term is defined below) that, directly or indirectly through one or more intermediaries, controls or is controlled by or is under common control with a Person, as such terms are used in and construed under Rule 144 under the Securities Act. With respect to any Person, any investment fund or managed account that is managed on a discretionary basis by the same investment manager of such Person will be deemed to be an Affiliate of such Person. A "Person" means any individual or corporation, partnership, trust, incorporated or unincorporated association, joint venture, limited liability company, joint stock company, government (or an agency or subdivision of any thereof) or other entity of any kind. The SCO Director Designees currently serving as directors of the Company are Mr. Jeffrey B. Davis and Mr. Mark Alvino.

Other than as set forth in the preceding paragraphs of this Item 4, each of the Reporting Persons does not have any plans or proposals which relate to or would result in any of the matters enumerated in clauses (a) through (j), inclusive, of Item 4 of Schedule 13D, namely: (a) the acquisition by any person of additional securities of the Company or the disposition of securities of the Company; (b) an extraordinary corporate transaction, such as a merger, reorganization or liquidation, involving the Company or any of its subsidiaries; (c) a sale or transfer of a material amount of assets of the Company or any of its subsidiaries; (d) any change in the present Board of Directors or management of the Company, including any plans or proposals to change the number or term of directors or to fill any existing vacancies on the Board; (e) any material change in the present capitalization or dividend policy of the Company; (f) any other material change in the Company's business or corporate structure; (g) changes in the Company's charter, bylaws or instruments corresponding thereto or other actions which may impede the acquisition of control of the Company by any person; (h) causing a class of securities of the Company to be delisted from a national securities exchange or to cease to be authorized to be quoted in an inter-dealer quotation system of a

registered national securities association; (i) a class of equity securities of the Company becoming eligible for termination of registration pursuant to Section 12(g)(4) of the Exchange Act; or (j) any action similar to any of those enumerated above.

Item 5. Interest in Securities of the Issuer.

(a) As of the date hereof, (i) SCO owns 1,568,8409 shares of Series A Preferred Stock, which are currently convertible into 5,229,470 shares of Common Stock and warrants to purchase an aggregate of 4,683,240 shares of Common Stock, (ii) SCO LP owns 200 shares of Series A Preferred Stock, which are currently convertible into 666,667 shares of Common Stock, and warrants to purchase an aggregate of 333,333 shares of Common Stock, (iii) Beach owns 154.2898 shares of Series A Preferred Stock, which are currently convertible into 514,299 shares of Common Stock, and warrants to purchase an aggregate of 435,197 shares of Common Stock and (iv) SCO Securities owns no warrants to purchase Common Stock. These securities in the aggregate represent beneficial ownership of 76.8% of the outstanding Common Stock of Access as of November 13, 2007 (as set forth in its report on Form 10Q filed on November 14, 2007). In his capacity as Chairman and managing member of SCO, in his capacity as managing member of the entity that serves as general partner of SCO LP and in his capacity as managing member of Beach, Mr. Rouhandeh may be deemed to beneficially own the 6,410,436 shares of Common Stock issuable upon conversion of Series A Preferred Stock and warrants to purchase 5,451,770 shares of Common Stock owned directly by SCO, SCO LP and Beach (as applicable). Each of SCO, SCO LP and Beach have provided the Company with notice that it does not choose to be governed by the ownership limitations provided in Section 5(i)(iii) of the Certificate of Designations, Rights and Preferences of the Series A Preferred Stock and the ownership limitations provided in Section 2.4(i) of the warrants issued in the Private Placement, the Second Private Placement, the Third Private Placement and the Fourth Private Placement (as applicable).

(b) Mr. Rouhandeh, in his capacity as Chairman and managing member of SCO, in his capacity as managing member of the entity that serves as general partner of SCO LP and in his capacity as managing member of Beach, has the sole power to direct the vote and disposition of the 6,410,436 shares of Common Stock beneficially owned by SCO, SCO LP and Beach upon conversion of Series A Preferred Stock and, upon exercise of warrants, Mr. Rouhandeh has the sole power to direct the vote and disposition of an additional 5,451,770 shares of Common Stock underlying warrants owned by SCO, SCO LP and Beach.

(c) Reference is made to the Reporting Persons' responses to Items 3 and 4.

(d) Not applicable.

(e) Not applicable.

Item 6. Contracts, Arrangements, Understandings or Relationships With Respect to Securities of the Issuer.

Reference is made to the Reporting Persons' responses to Items 3, 4 and 7.

Item 7. Material to be Filed as Exhibits.

Exhibit A –Convertible Note and Warrant Purchase Agreement dated February 16, 2006 (1)
Exhibit B –Form of 7.5% Secured Convertible Promissory Note (1)
Exhibit C –Form of Common Stock Purchase Warrant (1)
Exhibit D –Investor Rights Agreement dated February 16, 2006 (1)
Exhibit E –Security Agreement dated February 16, 2006 (1)
Exhibit F –Convertible Note and Warrant Purchase Agreement dated October 24, 2006 (2)
Exhibit G –Form of 7.5% Secured Convertible Promissory Note (2)
Exhibit H –Form of Common Stock Purchase Warrant (2)
Exhibit I –Investor Rights Agreement dated October 24, 2006 (2)
Exhibit J –Security Agreement Amendment dated October 24, 2006 (2)
Exhibit K –Convertible Note and Warrant Purchase Agreement dated December 6, 2006 (3)
Exhibit L –Form of 7.5% Secured Convertible Promissory Note (3)
Exhibit M –Form of Common Stock Purchase Warrant (3)
Exhibit N –Investor Rights Agreement dated December 6, 2006 (3)
Exhibit O –Second Amendment to Security Agreement dated December 6, 2006 (3)
Exhibit P –Preferred Stock and Warrant Purchase Agreement dated November 7, 2007
Exhibit Q – Certificate of Designations, Rights and Preferences of the Series A Cumulative Convertible Preferred Stock
Exhibit R –Form of Investor Rights Agreement
Exhibit S –Form of Common Stock Purchase Warrant
Exhibit T –Director Designation Agreement dated November 15, 2007

- (1) Incorporated by reference to Schedule 13D filed by the Reporting Persons on February 27, 2006.
(2) Incorporated by reference to Schedule 13D filed by the Reporting Persons on November 7, 2006.
(3) Incorporated by reference to Schedule 13D filed by the Reporting Persons on December 20, 2006.
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SIGNATURES

After reasonable inquiry and to the best of each of our knowledge and belief, we certify that the information set forth in this statement is true, complete and correct.

Dated: December 5, 2007

SCO CAPITAL PARTNERS LLC

By: /s/ Steven H. Rouhandeh
Name: Steven H. Rouhandeh
Title: Chairman

SCO SECURITIES LLC

By: /s/ Jeffrey B. Davis
Name: Jeffrey B. Davis
Title: President

SCO CAPITAL PARTNERS, L.P.

By: SCO Capital Investors LLC

By: /s/ Steven H. Rouhandeh
Name: Steven H. Rouhandeh
Title: Managing Member

BEACH CAPITAL, LLC

By: /s/ Steven H. Rouhandeh
Name: Steven H. Rouhandeh
Title: Managing Member

/s/ Steven H. Rouhandeh
Steven H. Rouhandeh

PREFERRED STOCK AND WARRANT PURCHASE AGREEMENT

by and among

Access Pharmaceuticals, Inc.

and

the parties named herein on Schedule 1, as Purchasers

November 7, 2007

This **PREFERRED STOCK AND WARRANT PURCHASE AGREEMENT** (this "*Agreement*") is dated as of November 7, 2007, among Access Pharmaceuticals, Inc., a Delaware corporation (the "*Company*"), and the purchasers identified on Schedule 1 hereto (each a "*Purchaser*" and collectively the "*Purchasers*").

WHEREAS, subject to the terms and conditions set forth in this Agreement and pursuant to Section 4(2) of the Securities Act (as defined below), and Rule 506 promulgated thereunder, the Company desires to issue and sell to the Purchasers, and the Purchasers, severally and not jointly, desire to purchase from the Company, in the aggregate, (i) up to 3,227,3617 shares of the Company's Series A Cumulative Convertible Preferred Stock, and (ii) Common Stock Purchase Warrants (the "*Warrants*") entitling the holders thereof to purchase up to 3,440,882 shares of the Company's Common Stock as more fully set forth herein.

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 each Purchaser agree as follows:

ARTICLE I

DEFINITIONS AND TERMS OF PREFERRED STOCK AND WARRANTS

1.1 Certain Definitions: Terms of Preferred Stock and Warrants.

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

"*Action*" shall have the meaning ascribed to such term in Section 3.1(j).

"*Affiliate*" means any Person that, directly or indirectly through one or more intermediaries, controls or is controlled by or is under common control with a 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.

"*Agreement*" shall have the meaning ascribed to such term in the Preamble.

"*Business Day*" means any day except Saturday, Sunday and any day which shall be a federal legal holiday or a day on which banking institutions in the State of Texas are authorized or required by law or other governmental action to close.

"*Certificate of Designation*" shall have the meaning ascribed to such term in Section 1.2.

"*Closing*" shall have the meaning ascribed to such term in Section 2.1(a).

"*Closing Date*" shall have the meaning ascribed to such term in Section 2.1(a).

"*Closing Escrow Agreement*" shall have the meaning ascribed to such term in Section 2.1(b).

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

“*Common Stock*” means the common stock of the Company, \$0.01 par value per share, and any securities into which such common stock may hereafter be reclassified.

“*Common Stock Equivalents*” means any securities of the Company or the Subsidiaries which would entitle the holder thereof to acquire at any time Common Stock, including without limitation, any debt, preferred stock, rights, options, warrants or other instrument that is at any time convertible into or exchangeable for, or otherwise entitles the holder thereof to receive, Common Stock.

“*Company*” shall have the meaning ascribed to such term in the Preamble.

“*Conversion Shares*” means the shares of Common Stock issuable or issued upon conversion of the Preferred Stock.

“*Disclosure Schedules*” means the Disclosure Schedules concurrently delivered herewith.

“*Effective Date*” means the date that the Registration Statement is first declared effective by the Commission.

“*Environmental Laws*” shall have the meaning ascribed to such term in Section 3.1(y).

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

“*FDC Act*” shall have the meaning ascribed to such term in Section 3.1(m).

“*GAAP*” shall have the meaning ascribed to such term in Section 3.1(h).

“*Governmental Authorizations*” shall have the meaning ascribed to such term in Section 3.1(m).

“*Hazardous Substances*” shall have the meaning ascribed to such term in Section 3.1(y).

“*Indemnified Party*” shall have the meaning ascribed to such term in Section 5.3.

“*Indemnifying Party*” shall have the meaning ascribed to such term in Section 5.3.

“*Intellectual Property*” shall have the meaning ascribed to such term in Section 3.1(o).

“*Investor Rights Agreement*” means the Investor Rights Agreement, dated as of the date of this Agreement, between the Company and each of the Purchasers, in the form of [Exhibit A](#) hereto.

“*Lien*” means a lien, charge, security interest, encumbrance, right of first refusal or other restriction, except for a lien for current taxes not yet due and payable and a minor imperfection of title, if any, not material in nature or amount and not materially detracting from the value or impairing the use of the property subject thereto or impairing the operations or proposed operations of the Company.

“*Material Adverse Effect*” shall have the meaning ascribed to such term in Section 3.1(b).

“*Per Share Purchase Price*” equals \$10,000.

“*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 and Dawson James Securities, Inc.

“*Placement Agent Warrants*” shall mean the common stock purchase warrants to be issued to the Placement Agents and/or their designees as compensation for services rendered in connection with the transaction set forth herein as provided on Schedule 1 attached hereto, which warrants shall be in the form of Exhibit D hereto.

“*Preferred Shares*” means the shares of Preferred Stock issued to each Purchaser pursuant to this Agreement.

“*Preferred Stock*” means the Company’s Series A Cumulative Convertible Preferred Stock, par value \$0.01 per share.

“*Premises*” shall have the meaning ascribed to such term in Section 3.1(y).

“*Promissory Notes*” shall have shall have the meaning ascribed to such term in Section 2.1(c).

“*Purchase Price*” means the aggregate purchase price paid by each Purchaser for the shares of Preferred Stock and Warrants purchased by such Purchaser hereunder.

“*Purchaser*” shall have the meaning ascribed to such term in the Preamble.

“*Registration Statement*” means a registration statement meeting the requirements set forth in the Investor Rights Agreement and covering the resale by the Purchasers of the Conversion Shares and the Warrant Shares.

“*Required Minimum*” means, as of any date, the maximum aggregate number of shares of Common Stock then issued or potentially issuable in the future pursuant to the Transaction Documents, including any Underlying Shares issuable upon exercise or conversion in full of all Warrants and shares of Preferred Stock, ignoring any conversion or exercise limits set forth therein, and assuming that any previously unconverted shares of Preferred Stock are held until the fifth anniversary of the Closing Date and all dividends are paid in shares of Common Stock until such fifth anniversary

“*Rights*” shall have the meaning ascribed to such term in Section 3.1(o).

“*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*” shall have the meaning ascribed to such term in Section 3.1(h).

“*Securities*” means the Preferred Shares, the Conversion Shares, the Warrants and the Warrant Shares.

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

“*Short Sales*” means all “short sales” as defined in Rule 200 of Regulation SHO under the Exchange Act (but shall not be deemed to include the location and/or reservation of borrowable shares of Common Stock).

“*Subscription Amount*” means, as to each Purchaser, the amount set forth beside such Purchaser’s name on Schedule 1 hereto, in United States dollars and in immediately available funds.

“*Subsidiary*” means, with respect to any entity, any corporation or other organization of which securities or other ownership interests having ordinary voting power to elect a majority of the board of directors or other persons performing similar functions, are directly or indirectly owned by such entity or of which such entity is a partner or is, directly or indirectly, the beneficial owner of 50% or more of any class of equity securities or equivalent profit participation interests.

“*Trading Day*” means (i) a day on which the Common Stock is traded on a Trading Market, or (ii) if the Common Stock is not listed on a Trading Market, a day on which the Common Stock is traded on the over-the-counter market, as reported by the OTC Bulletin Board, or (iii) if the Common Stock is not listed on a Trading Market or quoted on the OTC Bulletin Board, a day on which the Common Stock is quoted in the over-the-counter market as reported by Pink Sheets LLC (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 the following markets or exchanges on which the Common Stock is listed or quoted for trading on the date in question: the American Stock Exchange, the New York Stock Exchange, the Nasdaq National Market, the Nasdaq Capital Market or the OTC Bulletin Board.

“*Transaction Documents*” means this Agreement, the Certificate of Designation, the Investor Rights Agreement, the Warrants and any other documents or agreements executed in connection with the transactions contemplated hereunder.

“*Underlying Shares*” means the shares of Common Stock issued and issuable upon conversion of the Preferred Stock, upon exercise of the Warrants and issued and issuable in lieu of the cash payment of dividends on the Preferred Stock in accordance with the terms of the Certificate of Designation.

"VWAP" means, for any date, the price determined by the first of the following clauses that applies: (a) if the Common Stock is then listed or quoted on a Trading Market, the daily volume weighted average price of the Common Stock for such date (or the nearest preceding date) on the Trading Market on which the Common Stock is then listed or quoted as reported by Bloomberg L.P. (based on a Trading Day from 9:30 a.m. (New York City time) to 4:02 p.m. (New York City time)); (v) if the Common Stock is not then quoted for trading on any Trading Market and if prices for the Common Stock are then reported in the "Pink Sheets" published by Pink Sheets, LLC (or a similar organization or agency succeeding to its functions of reporting prices), the most recent bid price per share of the Common Stock so reported; or (d) in all other cases, the fair market value of a share of Common Stock as determined by an independent appraiser selected in good faith by the Purchasers of a majority in interest of the Securities then outstanding and reasonably acceptable to the Company.

"Warrants" shall have the meaning ascribed to such term in the recitals hereto. The Placement Agent Warrants shall also constitute "Warrants" for all purposes hereunder and the Placement Agents and/or their designees and such other persons or entities shall constitute "Purchasers" for all purposes hereunder.

"Warrant Shares" means the shares of Common Stock issuable upon exercise of the Warrants.

1.2 Terms of the Preferred Stock and Warrants. The terms and provisions of the Preferred Stock are set forth in the form of Certificate of Designations of Rights and Preferences of Series A Convertible Preferred Stock, attached hereto as Exhibit B (the "*Certificate of Designation*"). The terms and provisions of the Warrants are as set forth in the form of Common Stock Purchase Warrant, attached hereto as Exhibit C (and Exhibit D in the case of the Placement Agent Warrants).

ARTICLE II

PURCHASE AND SALE

2.1 Closing.

(a) The closing of the transactions contemplated under this Agreement (the "*Closing*") will take place upon the execution of this Agreement by the Company and the Purchasers immediately following satisfaction or waiver of the conditions set forth in Sections 2.2 and 2.3 (other than those conditions which by their terms are not to be satisfied or waived until the Closing), at the offices of Wiggin and Dana LLP, 400 Atlantic Street, Stamford, CT 06901 (or remotely via exchange of documents and signatures) or at such other place or day as may be mutually acceptable to the Purchasers and the Company. The date on which the Closing occurs is the "*Closing Date*".

(b) At the Closing, the Purchasers shall purchase, severally and not jointly, and the Company shall issue and sell, in the aggregate, 3,227,3617 shares of Preferred Stock and Warrants to purchase 3,440,882 shares of Common Stock. Each Purchaser shall purchase from the Company, and the Company shall issue and sell to each Purchaser, a number of Preferred Shares equal to such Purchaser's Subscription Amount divided by the Per Share Purchase Price

and a Warrant to purchase 50% of the number of Conversion Shares into which the Preferred Shares purchased by such Purchaser are initially convertible. Except to the extent paid in the form of surrender and cancellation of Promissory Notes (as defined below) pursuant to Section 2.1(c), the Subscription Amount paid by each Purchaser shall be placed in escrow pending the Closing pursuant to a Closing Escrow Agreement among the Company, SCO Capital Partners LLC and Wiggin and Dana LLP (the "Escrow Agent"), which agreement shall be in the form attached hereto as Exhibit E (the "Closing Escrow Agreement").

(c) All or a portion of the Subscription Amount payable by certain Purchasers for the Preferred Stock and Warrants purchased pursuant to this Agreement shall be payable by the surrender and cancellation of promissory notes of the Company held by such Purchasers, representing an aggregate principal amount of \$10,015,000 plus accrued and unpaid interest thereon and described next to such Purchaser's name in Schedule 1 hereto (the "Promissory Notes"), with the value of such Promissory Notes toward such Purchaser's Subscription Amount also described in Schedule 1. The value of each Promissory Note toward the Subscription Amount shall be determined according to whether the Promissory Note is an "A" Promissory Note (a "Category A Note") or a "B" Promissory Note (a "Category B Note"), in each case, as set forth on Schedule 1 under the heading "Promissory Note Category". Category A Notes shall be valued toward each applicable Purchaser's Subscription Amount at a dollar amount equal to (i) the number of shares of Common Stock into which such Category A Note is convertible immediately prior to the Closing (without giving effect to any limitations on beneficial ownership contained therein) multiplied by (ii) the Conversion Value (as defined in the Certificate of Designation); provided that, notwithstanding any other provision of this Agreement, the Warrants issuable to the Category A Note holders in respect of Category A Notes exchanged by them shall be exercisable for a number of shares of Common Stock determined as if the principal and interest on such Category A Notes were exchanged on a dollar-for-dollar basis and as set forth next to the name of such Category A Note holder on Schedule 1. Category B Notes shall be valued toward each applicable Purchaser's Subscription Amount at a dollar amount equal to the outstanding principal amount of such Category B Note plus all accrued and unpaid interest thereon. Each Purchaser surrendering Promissory Notes for cancellation in payment of any portion of such Purchaser's Subscription Amount hereby agrees that such Promissory Notes shall be cancelled and that all liens held by such Purchaser in connection with such Promissory Notes shall be terminated, in each case, as of the Closing.

2.2 Conditions to Obligations of Purchasers to Effect the Closing.

The obligations of each Purchaser to effect the Closing and the transactions contemplated by this Agreement shall be subject to the satisfaction at or prior to the Closing of each of the following conditions, any of which may be waived, in writing, by such Purchaser:

(a) At the Closing (unless otherwise specified below) the Company shall deliver or cause to be delivered to each Purchaser the following:

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

(ii) a certificate evidencing a number of Preferred Shares equal to such Purchaser's Subscription Amount divided by the Per Share Purchase Price as set forth on Schedule 1 hereto, registered in the name of such Purchaser;

(iii) a Warrant, registered in the name of such Purchaser, pursuant to which such Purchaser shall have the right to acquire up to the number of shares of Common Stock equal to 50% of the shares of Common Stock initially issuable upon conversion of the Preferred Shares to be issued to such Purchaser at such Closing (except with respect to Warrants issued upon exchange of Category A Notes, the number of which shall be determined in accordance with Section 2.1(c)), as set forth on Schedule 1 hereto;

(iv) the Investor Rights Agreement, duly executed by the Company;

(v) a legal opinion of Bingham McCutchen LLP, counsel to the Company, in the form of Exhibit F hereto;

(vii) a certificate of the Secretary of the Company (the "*Secretary's Certificate*"), attaching a true copy of the Certificate of Incorporation and Bylaws of the Company, as amended to the Closing Date, and attaching true and complete copies of the resolutions of the Board of Directors of the Company authorizing the execution, delivery and performance of this Agreement and the other Transaction Documents; and

(vii) evidence satisfactory to the Purchasers that the Certificate of Designation was duly filed with, and accepted by, the Secretary of State of the State of Delaware.

(b) The Company shall have entered into the Closing Escrow Agreement.

(c) All representations and warranties of the Company contained herein shall remain true and correct as of the Closing Date as though such representations and warranties were made on such date (except those representations and warranties that address matters only as of a particular date will remain true and correct as of such date).

(d) All of the Promissory Notes shall have been surrendered for cancellation in partial payment of the Subscription Amount for the Purchasers holding such notes;

(e) As of the Closing Date, there shall have been no Material Adverse Effect with respect to the Company since the date hereof.

(f) From the date hereof to the Closing Date, trading in the Common Stock shall not have been suspended by the Commission (except for any suspension of trading of limited duration agreed to by the Company, which suspension shall be terminated prior to the Closing), and, at any time prior to the Closing Date, trading in securities generally as reported by Bloomberg Financial Markets shall not have been suspended or limited, or minimum prices shall not have been established on securities whose trades are reported by such service, or on any Trading Market, nor shall a banking moratorium have been declared either by the United States or New York State authorities.

(g) All Purchasers surrendering Promissory Notes for cancellation in payment of any portion of their Subscription Amount shall have executed this Agreement.

(i) The minimum aggregate cash Subscription Amount hereunder shall be \$7,500,000.

2.3. Conditions to Obligations of the Company to Effect the Closing.

The obligations of the Company to effect the Closing and the transactions contemplated by this Agreement shall be subject to the satisfaction at or prior to the Closing of each of the following conditions, any of which may be waived, in writing, by the Company.

(a) At the Closing, each Purchaser shall deliver or cause to be delivered to the Company the following:

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

(ii) such Purchaser's Subscription Amount, as applicable, (A) by wire transfer of immediately available funds as provided in the Closing Escrow Agreement and/or (B) in the case of Purchasers paying all or a portion of their Subscription Amount by the cancellation of the Promissory Notes held by them, by the cancellation of such Promissory Notes pursuant to Section 2.1(c); and

(iii) the Investor Rights Agreement, duly executed by such Purchaser.

(b) All representations and warranties of each of the Purchasers contained herein shall remain true and correct as of the Closing Date as though such representations and warranties were made on such date.

(c) The Certificate of Designation shall have been duly filed with, and accepted by, the Secretary of State of the State of Delaware.

ARTICLE III

REPRESENTATIONS AND WARRANTIES

3.1 Representations and Warranties of the Company.

Except as set forth under the corresponding section of the Disclosure Schedules delivered concurrently herewith, the Company hereby makes the following representations and warranties as of the date hereof and as of the Closing Date to each Purchaser:

(a) Subsidiaries. Except as listed in Schedule 3.1(a), the Company has no direct or indirect Subsidiaries.

(b) Organization and Qualification. Each of the Company and the Subsidiaries 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 corporate power and authority to own and use its properties and assets and to carry on its business as currently conducted. Neither the Company nor any Subsidiary is in violation of any of the provisions of its respective certificate or articles of incorporation, bylaws or other organizational or charter documents. Each of the Company and the Subsidiaries 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, would not have or result in (i) a material adverse effect on the legality, validity or enforceability of any Transaction Document, (ii) a material adverse effect on the business or financial condition of the Company and the Subsidiaries, taken as a whole, or (iii) a material adverse effect on the Company's ability to perform in any material respect on a timely basis its obligations under any Transaction Document (any of (i), (ii) or (iii), a "Material Adverse Effect").

(c) Authorization; Enforceability. The Company has the requisite corporate power and authority to enter into and to consummate the transactions contemplated by each of the Transaction Documents and otherwise to carry out its obligations thereunder. The execution and delivery of each of the Transaction Documents by the Company and the consummation by it of the transactions contemplated thereby (including, but not limited to, the sale and delivery of the Preferred Stock and 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 in connection therewith. The issuance and delivery of the Conversion Shares upon conversion of the Preferred Stock and the Warrant Shares upon exercise of the Warrants have been duly authorized by all necessary action on the part of the Company and no further action is required by the Company in connection therewith. Each Transaction Document has been (or upon delivery will have been) duly executed by the Company and, 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, subject to laws of general application relating to bankruptcy, insolvency, reorganization, moratorium or other similar laws affecting creditors' rights generally and rules of law governing specific performance, injunctive relief, or other equitable remedies.

(d) No Conflicts. The execution, delivery and performance of the Transaction Documents by the Company and the consummation by the Company of the transactions contemplated thereby do not and will not (i) conflict with or violate any provision of the Company's or any Subsidiary's certificate or articles of incorporation, bylaws or other organizational or charter documents, or (ii) conflict with, or constitute a default (or an event that with notice or lapse of time or both would become a default) under, 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 or Subsidiary debt or otherwise) or other understanding to which the Company or any Subsidiary is a party or by which any property or asset of the Company or any Subsidiary is bound or affected, or (iii) 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 or a Subsidiary is subject (including federal and state securities laws and regulations), or by which any property or asset of the Company or a Subsidiary is bound or affected, except, in the cases of clause (ii), where such conflict, default or violation would not have or 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, other than (i) the filing with the Commission of the Registration Statement, the application(s) to each Trading Market for the listing of the Conversion Shares and Warrant Shares for trading thereon in the time and manner required thereby, Form D and

applicable Blue Sky filings, (ii) such as have already been obtained or such exemptive filings as are required to be made under applicable securities laws and (iii) the filing of the Certificate of Designation with the Secretary of State of the State of Delaware.

(f) Issuance of the Securities. The Securities are duly authorized and, when issued and paid for in accordance with the Transaction Documents, will be duly and validly issued, fully paid and nonassessable, free and clear of all Liens, other than any Liens created by or imposed on the holders thereof through no action of the Company. The Company has reserved from its duly authorized capital stock (i) the maximum number of shares of Preferred Stock issuable pursuant to this Agreement and (ii) the maximum number of shares of Common Stock issuable upon conversion of the Preferred Stock and exercise of the Warrants.

(g) Capitalization.

(i) The authorized and outstanding capitalization of the Company is set forth on Schedule 3.1(g) hereto. All shares of the Company's issued and outstanding capital stock have been duly authorized, are validly issued and outstanding, and are fully paid and nonassessable. No securities issued by the Company from March 1, 2002 to the date hereof were issued in violation of any statutory or common law preemptive rights. There are no dividends which have accrued or been declared but are unpaid on the capital stock of the Company. All taxes required to be paid by the Company in connection with the issuance and any transfers of the Company's capital stock have been paid. The holders of the Company's Common Stock have certain rights under the company's Rights Agreement dated as of October 31, 2001 by and between the Company and American Stock Transfer as Rights Agent. All outstanding securities of the Company have been issued in all material respects in accordance with the provisions of all applicable securities and other laws.

(ii) No Person has any right of first refusal, preemptive right, right of participation, or any similar right to participate in the transactions contemplated by the Transaction Documents. Except as a result of the purchase and sale of the Securities and except for employee and director stock options under the Company's equity compensation plans and as set forth on Schedule 3.1(h)(ii) hereto, there are no outstanding options, warrants, rights to subscribe to, calls or commitments of any character whatsoever relating to, or securities, rights or obligations convertible into or exchangeable for, or giving any Person any right to subscribe for or acquire, any shares of Common Stock, or contracts, commitments, understandings or arrangements by which the Company or any Subsidiary is or may become bound to issue additional shares of Common Stock, or securities or rights convertible or exchangeable into shares of Common Stock. The issue and sale of the Securities will not obligate the Company to issue shares of Common Stock or other securities to any Person (other than the Purchasers) and will not result in a right of any holder of Company securities other than the Purchasers to adjust the exercise, conversion, exchange or reset price under such securities.

(h) SEC Reports; Financial Statements; Liabilities.

(i) The Company has filed all reports required to be filed by it under the Securities Act and the Exchange Act, including pursuant to Section 13(a) or 15(d) of the Exchange Act, for the 24 months preceding the date hereof (or such shorter period as the Company was required by law to file such material) (the foregoing materials, including the

exhibits thereto, being collectively referred to herein as the "SEC Reports") 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 filing dates, the SEC Reports complied in all material respects with the requirements of the Securities Act and the Exchange Act, as the case may be, and the rules and regulations of the Commission promulgated thereunder, as applicable, and none of the SEC Reports, as of their respective filing dates, 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.

(ii) The Company's (A) audited financial statements for the fiscal years ended December 31, 2006 and 2005 included in the Company's annual reports on Form 10-KSB and Form 10-K, respectively, filed with the Commission and (B) the financial statements included in the Company's quarterly reports on Form 10-QSB filed with the Commission for the first two fiscal quarters of 2007 comply with applicable accounting requirements and the rules and regulations of the Commission with respect thereto as in effect at the time of filing of such reports. Such financial statements have been prepared in accordance with generally accepted accounting principles in the United States, applied on a consistent basis during the periods involved ("GAAP"), 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, subject to normal year-end audit adjustments. Such financial statements fairly present in all material respects the financial position of the Company and its consolidated subsidiaries, if any, as 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.

(iii) Except for liabilities and obligations incurred since June 30, 2007 in the ordinary course of business, consistent with past practice, as of the date hereof: (i) the Company and its Subsidiaries do not have any material liabilities or obligations (absolute, accrued, contingent or otherwise) and (ii) there has not been any aspect of the prior or current conduct of the business of the Company or its Subsidiaries which may form the basis for any material claim by any third party which if asserted could result in a Material Adverse Effect.

(i) Material Changes. Except as set forth on Schedule 3.1(i), since June 30, 2007, the Company has conducted its business only in the ordinary course, consistent with past practice, and since such date there has not occurred:

- (i) any event, occurrence or development that has had or that could reasonably be expected to result in a Material Adverse Effect on the Company or any of its Subsidiaries;
- (ii) any amendments or changes in the charter documents of the Company and its Subsidiaries;
- (iii) any:

(A) incurrence, assumption or guarantee by the Company or its Subsidiaries of any debt for borrowed money other than (i) equipment leases made in the ordinary course of

business, consistent with past practice and (ii) any such incurrence, assumption or guarantee with respect to an amount of \$25,000 or less that has been disclosed in the SEC Reports;

(B) other than as set forth on Schedule 3.1(i)(iii)(A) hereto, issuance or sale of any securities convertible into or exchangeable for securities of the Company other than to directors, employees and consultants pursuant to existing equity compensation or stock purchase plans of the Company;

(C) issuance or sale of options or other rights to acquire from the Company or its Subsidiaries, directly or indirectly, securities of the Company or any securities convertible into or exchangeable for any such securities, other than options issued to directors, employees and consultants in the ordinary course of business, consistent with past practice;

(D) issuance or sale of any stock, bond or other corporate security other than to directors, employees and consultants pursuant to existing equity compensation or stock purchase plans of the Company;

(E) discharge or satisfaction of any material Lien;

(F) declaration or making any payment or distribution to stockholders or purchase or redemption of any share of its capital stock or other security other than to directors, officers and employees of the Company or its Subsidiaries as compensation for services rendered to the Company or its Subsidiary (as applicable) or for reimbursement of expenses incurred on behalf of the Company or its Subsidiary (as applicable);

(G) sale, assignment or transfer of any of its intangible assets except in the ordinary course of business, consistent with past practice, or cancellation of any debt or claim except in the ordinary course of business, consistent with past practice;

(H) waiver of any right of substantial value whether or not in the ordinary course of business;

(I) material change in officer compensation, except in the ordinary course of business and consistent with past practice; or

(J) other commitment (contingent or otherwise) to do any of the foregoing.

(iv) other than as set forth on Schedule 3(i)(iv) hereto, any creation, sufferance or assumption by the Company or any of its Subsidiaries of any Lien on any asset or any making of any loan, advance or capital contribution to or investment in any Person, in an aggregate amount which exceeds \$25,000 outstanding at any time;

(v) any entry into, amendment of, relinquishment, termination or non-renewal by the Company or its Subsidiaries of any material contract, license, lease, transaction, commitment or other right or obligation, other than in the ordinary course of business, consistent with past practice; or

(vi) other than as set forth on Schedule 3(i)(vi) hereto, any transfer or grant of a right with respect to the patents, trademarks, trade names, service marks, trade secrets,

copyrights or other intellectual property rights owned or licensed by the Company or its Subsidiaries, except as among the Company and its Subsidiaries.

(j) Litigation. There is no action, suit, inquiry, notice of violation, proceeding or, to the knowledge of the Company, investigation pending nor, to the knowledge of the Company, is any of the above threatened against the Company, any Subsidiary or any of their respective properties before or by any court, arbitrator, governmental or administrative agency or regulatory authority (federal, state, county, local or foreign) (collectively, an "Action") which (i) adversely affects or challenges the legality, validity or enforceability of any of the Transaction Documents or the Securities or (ii) could, if there were an unfavorable decision, have or result in a Material Adverse Effect. Neither the Company nor any Subsidiary, nor, to the knowledge of the Company, any director or officer thereof, is or has been 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 within the past five (5) years. To the knowledge of the Company, there has not been and there is not pending or contemplated, any investigation by the Commission involving the Company or any current or former director or officer of the Company. The Commission has not issued any stop order or other order suspending the effectiveness of any registration statement filed by the Company or any Subsidiary under the Exchange Act or the Securities Act within the past eight (8) years.

(k) Labor Relations. No material labor dispute exists or, to the knowledge of the Company, is imminent with respect to any of the employees of the Company which could have or result in a Material Adverse Effect.

(l) Compliance. Neither the Company nor any Subsidiary (i) is 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 or any Subsidiary under), nor has the Company or any Subsidiary received notice of a claim that it is currently 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) is in violation of any order of any court, arbitrator or governmental body, or (iii) is or has been in violation of any statute, rule or regulation of any governmental authority, including without limitation all foreign, federal, state and local laws applicable to its business, except in the case of clauses (i) and (iii) as would not have or reasonably be expected to result in a Material Adverse Effect.

(m) Licenses; Compliance With FDA and Other Regulatory Requirements.

(i) The Company holds all material authorizations, consents, approvals, franchises, licenses and permits required under applicable law or regulation for the operation of the business of the Company and its Subsidiaries as presently operated (the "Governmental Authorizations"). All the Governmental Authorizations have been duly issued or obtained and are in full force and effect, and the Company and its Subsidiaries are in material compliance with the terms of all the Governmental Authorizations. The Company and its Subsidiaries have not engaged in any activity that, to their knowledge, would cause revocation or suspension of any such Governmental Authorizations. Neither the execution, delivery nor performance of this Agreement shall adversely affect the status of any of the Governmental Authorizations.

(ii) Without limiting the generality of the representations and warranties made in sub-paragraph (i) above, the Company represents and warrants that (i) the Company and each of its Subsidiaries is in material compliance with all applicable provisions of the United States Federal Food, Drug, and Cosmetic Act and the rules and regulations promulgated thereunder (the "*FDC Act*") and equivalent laws, rules and regulations in jurisdictions outside the United States in which the Company or its Subsidiaries do business, (ii) its products and those of each of its Subsidiaries that are in the Company's control are not adulterated or misbranded and are in lawful distribution, (iii) all of the products marketed by and within the control of the Company comply in all material respects with any conditions of approval and the terms of the application by the Company to the appropriate Regulatory Authorities, (iv) no Regulatory Authority has initiated legal action with respect to the manufacturing of the Company's products, such as seizures or required recalls, and the Company is in compliance with applicable good manufacturing practice regulations, (v) its products are labeled and promoted by the Company and its representatives in substantial compliance with the applicable terms of the marketing applications submitted by the Company to the Regulatory Authorities and the provisions of the FDC Act and foreign equivalents, (vi) all adverse events that were known to and required to be reported by Company to the Regulatory Authorities have been reported to the Regulatory Authorities in a timely manner, (vii) neither the Company nor any of its Subsidiaries is, to their knowledge, employing or utilizing the services of any individual who has been debarred under the FDC Act or foreign equivalents, (viii) all stability studies required to be performed for products distributed by the Company or any of its Subsidiaries have been completed or are ongoing in material compliance with the applicable Regulatory Authority requirements, (ix) any products exported by the Company or any of its Subsidiaries have been exported in compliance with the FDC Act and (x) the Company and its Subsidiaries are in compliance in all material respects with all applicable provisions of the Controlled Substances Act. For purposes of this Section 3.1(m), "*Regulatory Authority*" means any governmental authority in a country or region that regulates the manufacture or sale of Company's products, including, but not limited to, the United States Food and Drug Administration.

(n) **Title to Assets.** The Company and the Subsidiaries do not own any real property, and have good and marketable title to all personal property owned by them that is material to the business of the Company and the Subsidiaries, taken as a whole, in each case free and clear of all Liens, except those, if any, reflected in the Company's financial statements or incurred in the ordinary course of business consistent with past practice or which would not cause a Material Adverse Effect. Any real property and facilities held under lease by the Company and the Subsidiaries are held by them under valid, subsisting and enforceable leases (subject to laws of general application relating to bankruptcy, insolvency, reorganization, moratorium or other similar laws affecting creditors' rights generally and rules of law governing specific performance, injunctive relief, or other equitable remedies) with which the Company and the Subsidiaries are in material compliance.

(o) Intellectual Property.

(i) The Company or a Subsidiary thereof has the right to use or is the sole and exclusive owner of all right, title and interest in and to all material foreign and domestic patents, patent rights, trademarks, service marks, trade names, brands and copyrights (whether or not registered and, if applicable, including pending applications for registration) owned, used or controlled by the Company and its Subsidiaries (collectively, the "*Rights*") and in and to each

material invention, software, trade secret, technology, product, composition, formula and method of process used by the Company or its Subsidiaries (the Rights and such other items, the "*Intellectual Property*"), and, to the Company's knowledge, has the right to use the same, free and clear of any claim or conflict with the rights of others (subject to the provisions of any applicable license agreement) except as would not cause a Material Adverse Effect;

(ii) other than in the ordinary course of business, no royalties or fees (license or otherwise) are payable by the Company or its Subsidiaries to any Person by reason of the ownership or use of any of the Intellectual Property;

(iii) there have been no written claims made against the Company or its Subsidiaries asserting the invalidity, abuse, misuse, or unenforceability of any of the Intellectual Property, and, to the best of the Company's knowledge, there are no reasonable grounds for any such claims which would cause a Material Adverse Effect;

(iv) neither the Company nor its Subsidiaries have made any claim of any violation or infringement by others of its rights in the Intellectual Property, and to the best of the Company's knowledge, no reasonable grounds for such claims exist; and

(v) neither the Company nor its Subsidiaries have received written notice that it is in conflict with or infringing upon the asserted rights of others in connection with the Intellectual Property which would cause a Material Adverse Effect.

(p) Insurance. The Company and the Subsidiaries are insured by insurers of recognized financial responsibility against such losses and risks and in such amounts as are prudent and customary in the businesses in which the Company and the Subsidiaries are engaged, including, but not limited to, directors and officers insurance coverage in the amount set forth on Schedule 3.1(p) attached hereto. All of the insurance policies of the Company and its Subsidiaries are in full force and effect and are valid and enforceable in accordance with their terms, and the Company and its Subsidiaries have complied with all material terms and conditions thereof. Neither the Company nor any Subsidiary has any reason to believe that it will not be able to renew its existing insurance coverage as and when such coverage expires or to obtain similar coverage from similar insurers as may be necessary to continue its business without a significant increase in cost.

(q) Transactions With Affiliates and Employees. Except as provided in the SEC Reports, none of the officers or directors of the Company and, to the knowledge of the Company, none of the employees of the Company is presently a party to any transaction with the Company or any Subsidiary (other than for services as employees, officers and 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 officer, director or such employee or, to the knowledge of the Company, any entity in which any officer, director, or any such employee has a substantial interest or is an officer, director, trustee or partner, other than (a) for payment of salary or consulting fees for services rendered, (b) reimbursement for expenses incurred on behalf of the Company and (c) for other employee benefits, including stock option agreements and other stock awards under any equity compensation plan of the Company.

(r) Internal Accounting Controls. The Company is in material compliance with all provisions of the Sarbanes-Oxley Act of 2002 which are applicable to it as of the Closing Date. The Company and each of the Subsidiaries maintains a system of internal accounting controls sufficient in the judgment of the Company's management 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. The Company has established disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) for the Company and designed such disclosure controls and procedures to ensure that the Company is able to collect the information that it is required to disclose in the reports it files with the Commission and to process, summarize and disclose this information in the time periods specified in the Commission's rules. The Company's certifying officers have evaluated the effectiveness of the Company's controls and procedures as of June 30, 2007 (such date, the "Evaluation Date"). The Company presented in its Form 10-QSB for the quarter ended June 30, 2007, the conclusions of the certifying officers about the effectiveness of the disclosure controls and procedures based on their evaluations as of the Evaluation Date. Since the Evaluation Date, there have been no significant changes in the Company's internal control over financial reporting (as such term is defined in Exchange Act Rule 13a-15) or, to the Company's knowledge, in other factors that could significantly affect the Company's internal controls.

(s) Certain Fees. Except for fees payable to the Placement Agents, no brokerage or finder's fees or commissions are or will be payable by the Company to any broker, financial advisor or consultant, finder, placement agent, investment banker, bank or other Person with respect to the transactions contemplated by this Agreement. The Purchasers shall have no obligation with respect to any fees or with respect to any claims made by or on behalf of other Persons for fees of a type contemplated in this Section that may be due in connection with the transactions contemplated by this Agreement.

(t) Private Placement; Integrated Offering. Assuming the accuracy of the Purchasers representations and warranties set forth in Section 3.2, no registration under the Securities Act is required for the offer and sale of the Securities by the Company to the Purchasers as contemplated hereby. The issuance and sale of the Securities hereunder does not contravene the rules and regulations of the Trading Market. Neither the Company, nor any of its Affiliates, nor any Person acting on its or their behalf has, directly or indirectly, made any offers or sales of any security or solicited any offers to buy any security, under circumstances that would cause this offering of the Securities to be integrated with prior offerings by the Company for purposes of the Securities Act and would as a result require registration under the Securities Act or trigger any applicable shareholder approval provisions, including, without limitation, under the rules and regulations of any exchange or automated quotation system on which any of the securities of the Company are listed or designated.

(u) Charter, Bylaws and Corporate Records. The minute books of the Company and its Subsidiaries contain in all material respects complete and accurate records of all meetings and other corporate actions of the board of directors, committees of the board of directors, incorporators and stockholders of the Company and its Subsidiaries from the date of

incorporation of each such entity to the date hereof. All material corporate decisions and actions have been validly made or taken. All corporate books, including without limitation the share transfer register, comply in all material respects with applicable laws and regulations and have been regularly updated.

(v) Registration Rights. Except as set forth in Schedule 3.1(v), no Person has any right to cause the Company to effect the registration under the Securities Act of any securities of the Company.

(w) Listing and Maintenance Requirements. Except as set forth on Schedule 3(w), the Company has not, in the 12 months preceding the date hereof, received 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 it will not in the foreseeable future continue to be, in compliance with all such listing and maintenance requirements.

(x) Taxes. All tax returns and tax reports required to be filed with respect to the income, operations, business or assets of the Company and its Subsidiaries have been timely filed (or appropriate extensions have been obtained) with the appropriate governmental agencies in all jurisdictions in which such returns and reports are required to be filed, and all of the foregoing as filed are, in all material respects, correct and complete and, in all material respects, reflect accurately all liability for taxes of the Company and its Subsidiaries for the periods to which such returns relate, and all amounts shown as owing thereon have been paid. All income, profits, franchise, sales, use, value added, occupancy, property, excise, payroll, withholding, FICA, FUTA and other taxes (including interest and penalties), if any, collectible or payable by the Company and its Subsidiaries or relating to or chargeable against any of its material assets, revenues or income or relating to any employee, independent contractor, creditor, stockholder or other third party through the Closing Date, were fully collected and paid by such date if due by such date or provided for by adequate reserves in the financial statements contained in the SEC Reports as of and for the periods ended September 30, 2005 (other than taxes accruing after such date) and all similar items due through the Closing Date will have been fully paid by that date or provided for by adequate reserves, whether or not any such taxes were reported or reflected in any tax returns or filings. No taxation authority has sought to audit the records of the Company or any of its Subsidiaries for the purpose of verifying or disputing any tax returns, reports or related information and disclosures provided to such taxation authority, or for the Company's or any of its Subsidiaries' alleged failure to provide any such tax returns, reports or related information and disclosure. No material claims or deficiencies have been asserted against or inquiries raised with the Company or any of its Subsidiaries with respect to any taxes or other governmental charges or levies which have not been paid or otherwise satisfied, including claims that, or inquiries whether, the Company or any of its Subsidiaries has not filed a tax return that it was required to file, and, to the best of the Company's knowledge, there exists no reasonable basis for the making of any such claims or inquiries. Neither the Company nor any of its Subsidiaries has waived any restrictions on assessment or collection of taxes or consented to the extension of any statute of limitations relating to taxation.

(y) Environmental Matters. None of the premises or any properties owned, occupied or leased by the Company or its Subsidiaries (the "*Premises*") has been used by the Company or the Subsidiaries or, to the Company's knowledge, by any other Person, to

manufacture, treat, store, or dispose of any substance that has been designated to be a "hazardous substance" under applicable Environmental Laws (hereinafter defined) ("*Hazardous Substances*") in violation of any applicable Environmental Laws. To its knowledge, the Company has not disposed of, discharged, emitted or released any Hazardous Substances which would require, under applicable Environmental Laws, remediation, investigation or similar response activity. No Hazardous Substances are present as a result of the actions of the Company or, to the Company's knowledge, any other Person, in, on or under the Premises which would give rise to any liability or clean-up obligations of the Company under applicable Environmental Laws. The Company and, to the Company's knowledge, any other Person for whose conduct it may be responsible pursuant to an agreement or by operation of law, are in compliance with all laws, regulations and other federal, state or local governmental requirements, and all applicable judgments, orders, writs, notices, decrees, permits, licenses, approvals, consents or injunctions in effect on the date of this Agreement relating to the generation, management, handling, transportation, treatment, disposal, storage, delivery, discharge, release or emission of any Hazardous Substance (the "*Environmental Laws*"). Neither the Company nor, to the Company's knowledge, any other Person for whose conduct it may be responsible pursuant to an agreement or by operation of law has received any written complaint, notice, order, or citation of any actual, threatened or alleged noncompliance with any of the Environmental Laws, and there is no proceeding, suit or investigation pending or, to the Company's knowledge, threatened against the Company or, to the Company's knowledge, any such Person with respect to any violation or alleged violation of the Environmental Laws, and, to the knowledge of the Company, there is no basis for the institution of any such proceeding, suit or investigation.

(z) Disclosure. The Company confirms that neither the Company nor any other Person acting on its behalf and at the direction of the Company, has provided any Purchaser or its agents or counsel with any information that in the Company's reasonable judgment, at the time such information was furnished, constitutes or might constitute material, non-public information, other than information relating to the fact that the Company was considering and engaged in the transactions contemplated by the Transaction Documents and unless prior thereto such Purchaser shall have consented in writing to the receipt of such information. The Company understands and confirms that the Purchasers will rely on the foregoing representations and covenants in effecting transactions in securities of the Company. All disclosure provided to the Purchasers regarding the Company, its business and the transactions contemplated hereby, including the Disclosure Schedules to this Agreement, furnished by or on behalf of the Company 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.

(aa) No Additional Representations. Each Purchaser acknowledges and agrees that the Company does not make and has not made any representations or warranties with respect to the transactions contemplated hereby other than those specifically set forth in this Section 3.1 or in any Transaction Document.

(bb) Poison Pill. 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 Certificate of Incorporation (or similar charter documents) or the laws of its state of incorporation that is or could become applicable to the

Purchasers as a result of the Purchasers and the Company fulfilling their obligations or exercising their rights under this Agreement and the Transaction Documents, including without limitation the Company's issuance of the Securities and the Purchasers' ownership of the Securities.

(cc) Solvency. Based on the consolidated financial condition of the Company as of the Closing Date after giving effect to the receipt by the Company of the proceeds from the sale of the Securities hereunder, (i) the fair saleable value of the Company's assets exceeds the amount that will be required to be paid on or in respect of the Company's existing debts and other liabilities (including known contingent liabilities) as they mature, (ii) the Company's assets do not constitute unreasonably small capital to carry on its business as now conducted and as proposed to be conducted including its capital needs taking into account the particular capital requirements of the business conducted by the Company, and projected capital requirements and capital availability thereof, and (iii) the current cash flow of the Company, together with the proceeds the Company would receive, were it to liquidate all of its assets, after taking into account all anticipated uses of the cash, would be sufficient to pay all amounts on or in respect of its liabilities when such amounts are required to be paid. The Company does not intend to incur debts beyond its ability to pay such debts as they mature (taking into account the timing and amounts of cash to be payable on or in respect of its debt). The Company has no knowledge of any facts or circumstances which lead it to believe that it will file for reorganization or liquidation under the bankruptcy or reorganization laws of any jurisdiction within one year from the Closing Date. Schedule 3.1(cc) sets forth as of the date hereof all outstanding secured and unsecured Indebtedness of the Company or any Subsidiary, or for which the Company or any Subsidiary has commitments. For the purposes of this Agreement, "Indebtedness" means (a) any liabilities for borrowed money or amounts owed in excess of \$50,000 (other than trade accounts payable incurred in the ordinary course of business), (b) all guaranties, endorsements and other contingent obligations in respect of indebtedness of others, whether or not the same are or should be reflected in the Company's balance sheet (or the notes thereto), except guaranties by endorsement of negotiable instruments for deposit or collection or similar transactions in the ordinary course of business; and (c) the present value of any lease payments in excess of \$50,000 due under leases required to be capitalized in accordance with GAAP. Neither the Company nor any Subsidiary is in default with respect to any Indebtedness.

(dd) Accountants. The Company's accounting firm is set forth on Schedule 3.1(dd) of the Disclosure Schedule. To the knowledge and belief of the Company, such accounting firm (i) is a registered public accounting firm as required by the Exchange Act and (ii) shall express its opinion with respect to the financial statements to be included in the Company's Annual Report for the year ending December 31, 2007.

(ee) Seniority. As of the Closing Date, no Indebtedness or other claim against the Company is senior to the Preferred Stock in right of payment, whether with respect to interest or upon liquidation or dissolution, or otherwise, other than indebtedness secured by purchase money security interests (which is senior only as to underlying assets covered thereby) and capital lease obligations (which is senior only as to the property covered thereby).

(ff) No Disagreements with Accountants and Lawyers. There are no disagreements of any kind presently existing, or reasonably anticipated by the Company to arise,

between the Company and the accountants and lawyers formerly or presently employed by the Company and the Company is current with respect to any fees owed to its accountants and lawyers which could affect the Company's ability to perform any of its obligations under any of the Transaction Documents.

(gg) Acknowledgment Regarding Purchasers' Purchase of Securities. The Company acknowledges and agrees that each of the Purchasers is acting solely in the capacity of an arm's length purchaser with respect to the Transaction Documents and the transactions contemplated thereby. The Company further acknowledges that no Purchaser is acting as a financial advisor or fiduciary of the Company (or in any similar capacity) with respect to the Transaction Documents and the transactions contemplated thereby and any advice given by any Purchaser or any of their respective representatives or agents in connection with the Transaction Documents and the transactions contemplated thereby is merely incidental to the Purchasers' purchase of the Securities. The Company further represents to each Purchaser that the Company's decision to enter into this Agreement and the other Transaction Documents has been based solely on the independent evaluation of the transactions contemplated hereby by the Company and its representatives.

(hh) Acknowledgement Regarding Purchasers' Trading Activity. Notwithstanding anything in this Agreement or elsewhere herein to the contrary, it is understood and acknowledged by the Company that (i) none of the Purchasers has been asked to agree by the Company, nor has any Purchaser agreed, to desist from purchasing or selling, long and/or short, securities of the Company, or "derivative" securities based on securities issued by the Company or to hold the Securities for any specified term, (ii) past or future open market or other transactions by any Purchaser, specifically including, without limitation, Short Sales or "derivative" transactions, before or after the closing of this or future private placement transactions, may negatively impact the market price of the Company's publicly-traded securities, (iii) any Purchaser, and counter-parties in "derivative" transactions to which any such Purchaser is a party, directly or indirectly, may presently have a "short" position in the Common Stock; and (iv) each Purchaser shall not be deemed to have any affiliation with or control over any arm's length counter-party in any "derivative" transaction. The Company further understands and acknowledges that (a) one or more Purchasers may engage in hedging activities at various times during the period that the Securities are outstanding, including, without limitation, during the periods that the value of the Underlying Shares deliverable with respect to Securities are being determined, and (b) such hedging activities (if any) could reduce the value of the existing stockholders' equity interests in the Company at and after the time that the hedging activities are being conducted. The Company acknowledges that such aforementioned hedging activities do not constitute a breach of any of the Transaction Documents.

(ii) Regulation M Compliance. The Company has not, and to its knowledge no one acting on its behalf has, (i) taken, directly or indirectly, any action designed to cause or to result in the stabilization or manipulation of the price of any security of the Company to facilitate the sale or resale of any of the Securities, (ii) sold, bid for, purchased, or paid any compensation for soliciting purchases of, any of the securities of the Company, or (iii) paid or agreed to pay to any Person any compensation for soliciting another to purchase any other securities of the Company, other than, in the case of clauses (ii) and (iii), compensation paid to the Company's placement agent in connection with the placement of the Securities.

(jj) No General Solicitation. Neither the Company nor any person acting on behalf of the Company has offered or sold any of the Securities by any form of general solicitation or general advertising. The Company has offered the Securities for sale only to the Purchasers and certain other “accredited investors” within the meaning of Rule 501 under the Securities Act.

(kk) Investment Company. The Company is not, and is not an Affiliate of, and immediately after receipt of payment for the Securities, will not be or be an Affiliate of, an “investment company” within the meaning of the Investment Company Act of 1940, as amended. The Company shall conduct its business in a manner so that it will not become subject to the Investment Company Act of 1940, as amended.

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 as follows:

(a) Organization; Authority; Enforceability. Such Purchaser (other than individuals) is an entity duly organized, validly existing and in good standing under the laws of the jurisdiction of its organization with full power and authority to enter into and to consummate the transactions contemplated by the Transaction Documents and otherwise to carry out its obligations thereunder. The execution, delivery and performance by such Purchaser of the transactions contemplated by this Agreement has been duly authorized by all necessary corporate or similar action on the part of such Purchaser. Each Transaction Document to which it is a party 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, subject to laws of general application relating to bankruptcy, insolvency, reorganization, moratorium or other similar laws affecting creditors’ rights generally and rules of law governing specific performance, injunctive relief, or other equitable remedies.

(b) 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 solicitation or general advertisement.

(c) No Public Sale or Distribution. Such Purchaser is (i) acquiring the Preferred Shares and Warrants and (ii) upon conversion of the Preferred Stock will acquire the Conversion Shares and upon exercise of the Warrants will acquire the Warrant Shares, as applicable, for its own account and not with a view towards, or for resale in connection with, the public sale or distribution thereof; *provided, however*, that by making the representations herein, such Purchaser does not agree to hold any of the Securities for any minimum or other specific term and reserves the right to dispose of the Securities at any time in accordance with or pursuant to a registration statement or an exemption under the Securities Act. Such Purchaser is acquiring the Securities hereunder in the ordinary course of its business. Such Purchaser does not have any agreement or understanding, directly or indirectly, with any Person to distribute any of the Securities.

(d) Accredited Investor Status. Such Purchaser is an “accredited investor” as that term is defined in Rule 501(a) of Regulation D.

(e) Residency. Such Purchaser is a resident of the jurisdiction set forth below such Purchaser’s name on Schedule 1 attached hereto.

(f) Reliance on Exemptions. Such Purchaser understands that the Preferred Shares and Warrants are 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, acknowledgments 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 Preferred Shares and Warrants.

(g) Information. Such Purchaser and its advisors, if any, have been furnished with all publicly available materials (or such materials have been made available to such Purchaser) relating to the business, finances and operations of the Company and such other publicly available materials relating to the offer and sale of the Preferred Shares and Warrants as have been requested by such Purchaser, including without limitation the Company’s Form 10-KSB for the period ended December 31, 2006, Forms 10-QSB for the periods ended March 31, 2007 and June 30, 2007 and Forms 8-K filed by the Company since January 1, 2007. Each Purchaser acknowledges that it has read and understands the risk factors set forth in such Form 10-KSB, Forms 10-QSB and Forms 8-K. Neither such review nor any other due diligence investigations conducted by such Purchaser or its advisors, if any, or its representatives shall modify, amend or affect such Purchaser’s right to rely on the Company’s representations and warranties contained herein. Such Purchaser understands that its investment in the Preferred Shares and Warrants involves a high degree of risk.

(h) 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 Preferred Shares and Warrants or the fairness or suitability of the investment in the Preferred Shares and Warrants, nor have such authorities passed upon or endorsed the merits of the offering of the Preferred Shares and Warrants.

(i) Experience of Such Purchaser. Such Purchaser, either alone or together with its representatives, has such knowledge, sophistication and experience in business and financial matters, including investing in companies engaged in the business in which the Company is engaged, so as to be capable of evaluating the merits and risks of the prospective investment in the Preferred Shares and Warrants, 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 Preferred Shares and Warrants and, at the present time, is able to afford a complete loss of such investment.

The Company acknowledges and agrees that each Purchaser does not make or has not made 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 Transfer Restrictions.

(a) The Securities may only be disposed of in compliance with state and federal securities laws. In connection with any transfer of Securities other than pursuant to an effective registration statement, to the Company, to an Affiliate of a Purchaser (who is an accredited investor and executes a customary representation letter) or in connection with a pledge as contemplated in Section 4.1(b), the Company may require the transferor thereof to provide to the Company an opinion of counsel selected by the transferor and reasonably satisfactory to the Company (it being understood that Wiggin and Dana LLP is reasonably satisfactory), 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, *provided, however*, that in the case of a transfer pursuant to Rule 144, no opinion shall be required if the transferor provides the Company with a customary seller's representation letter, and if such sale is not pursuant to subsection (k) of Rule 144, a customary broker's representation letter and a Form 144. Any such transferee that agrees in writing to be bound by the terms of this Agreement and the Investor Rights Agreement shall have the rights of a Purchaser under this Agreement and the Investor Rights Agreement. Except as required by federal securities laws and the securities law of any state or other jurisdiction within the United States, the Securities may be transferred, in whole or in part, by any of the Purchasers at any time. The Company shall reissue certificates evidencing the Securities upon surrender of certificates evidencing the Securities being transferred in accordance with this Section 4.1(a).

(b) The Purchasers agree to the imprinting, so long as is required by this Section 4.1(b), of a legend on any of the Securities in substantially the following form:

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 AS EVIDENCED BY A LEGAL OPINION OF COUNSEL TO THE TRANSFEROR TO SUCH EFFECT, SUCH COUNSEL AND THE SUBSTANCE OF SUCH OPINION SHALL BE REASONABLY ACCEPTABLE TO THE COMPANY. UNLESS PROHIBITED BY APPLICABLE LAW, RULE OR REGULATION, THESE SECURITIES MAY BE PLEDGED IN CONNECTION WITH A BONA FIDE MARGIN ACCOUNT WITH A REGISTERED BROKER-DEALER OR OTHER LOAN WITH A FINANCIAL INSTITUTION THAT IS AN "ACCREDITED INVESTOR" AS DEFINED IN RULE 501(a) UNDER THE SECURITIES ACT.

The Company acknowledges and agrees that, unless prohibited by applicable law, rule or regulation, a Purchaser may from time to time pledge pursuant to a bona fide margin

agreement with a registered broker-dealer or grant a security interest in some or all of the Securities to a financial institution that is an “accredited investor” as defined in Rule 501(a) under the Securities Act and, if required under the terms of such arrangement, such Purchaser may transfer pledged or secured Securities to the pledgees or secured parties. Such a pledge or transfer would not be subject to approval of the Company and no legal opinion of legal counsel of the pledgee, secured party or pledgor shall be required in connection therewith; provided, however, that such Purchaser shall provide the Company with such documentation as is reasonably requested by the Company to ensure that the pledge is pursuant to a bona fide margin agreement with a registered broker-dealer or a security interest in some or all of the Securities to a financial institution that is an “accredited investor” as defined in Rule 501(a) under the Securities Act. The Company will execute and deliver such documentation as a pledgee or secured party of Securities may reasonably request in connection with a pledge or transfer of the Securities, including the preparation and filing of any required prospectus supplement under Rule 424(b)(3) under the Securities Act or other applicable provision of the Securities Act to appropriately amend the list of selling stockholders thereunder.

(c) Certificates evidencing the Conversion Shares and the Warrant Shares shall not contain any legend (including the legend set forth in Section 4.1(b) hereof): (i) while a registration statement (including the Registration Statement) covering the resale of such security is effective under the Securities Act, or (ii) following any sale of such Underlying Shares pursuant to Rule 144, or (iii) if such Underlying Shares are eligible for sale under Rule 144(k), or (iv) if such legend is not required under applicable requirements of the Securities Act (including judicial interpretations and pronouncements issued by the staff of the Commission). The Company shall cause its counsel to issue a legal opinion to the Transfer Agent promptly after the Effective Date if required by the Transfer Agent to effect the removal of the legend hereunder. If all or any shares of Preferred Stock or any portion of a Warrant is converted or exercised (as applicable) at a time when there is an effective registration statement to cover the resale of the Underlying Shares, or if such Underlying Shares may be sold under Rule 144(k) or if such legend is not otherwise required under applicable requirements of the Securities Act (including judicial interpretations and pronouncements issued by the staff of the Commission) then such Underlying Shares shall be issued free of all legends. The Company agrees that following the Effective Date or at such time as such legend is no longer required under this Section 4.1(c), it will, no later than three Trading Days following the delivery by a Purchaser to the Company or the Transfer Agent of a certificate representing Underlying Shares, as applicable, issued with a restrictive legend (such third Trading Day, the “Legend Removal Date”), deliver or cause to be delivered to such Purchaser a certificate representing such shares 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. Certificates for Underlying Shares subject to legend removal hereunder shall be transmitted by the Transfer Agent to the Purchaser by crediting the account of the Purchaser’s prime broker with the Depository Trust Company System as directed by such Purchaser.

(d) In addition to such Purchaser’s other available remedies, the Company shall pay to a Purchaser, in cash, as partial liquidated damages and not as a penalty, for each \$1,000 of Underlying Shares (based on the VWAP of the Common Stock on the date such Securities are submitted to the Transfer Agent) delivered for removal of the restrictive legend and subject to Section 4.1(c), \$10 per Trading Day (increasing to \$20 per Trading Day 5 Trading Days after such damages have begun to accrue) for each Trading Day after the Legend Removal Date until

such certificate is delivered without a legend. Nothing herein shall limit such Purchaser's right to pursue actual damages for the Company's failure to deliver certificates representing any Securities as required by the Transaction Documents, and such Purchaser shall have the right to pursue all remedies available to it at law or in equity including, without limitation, a decree of specific performance and/or injunctive relief.

(e) Each Purchaser, severally and not jointly, agrees that the removal of the restrictive legend from certificates representing Securities as set forth in this Section 4.1 is predicated upon the Company's reliance on, and the Purchaser's agreement that, and each Purchaser hereby agrees that, the Purchaser will not sell any Securities except pursuant to either the registration requirements of the Securities Act, including any applicable prospectus delivery requirements, or an exemption therefrom.

4.2 Furnishing of Information.

As long as any Purchaser owns Securities, the Company covenants 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. Upon the request of any such holder of Securities, the Company shall deliver to such holder a written certification of a duly authorized officer as to whether it has complied with the preceding sentence. As long as any Purchaser owns Securities, if the Company is not required to file reports pursuant to the Exchange Act, 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 Securities 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 such Securities without registration under the Securities Act within the limitation of the exemptions provided by Rule 144.

4.3 Integration.

The Company shall not 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 would 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 would be integrated with the offer or sale of the Securities for purposes of the rules and regulations of any Trading Market.

4.4 Publicity.

The Company shall, by 8:30 a.m. (New York City time) on the Trading Day immediately following the date hereof, issue a press release disclosing the material terms of the transactions contemplated hereby, and within two Business Days following the Closing Date, file a Current Report on Form 8-K, disclosing the transactions contemplated hereby and make such other filings and notices in the manner and time required by the Commission. The Company and the Placement Agents shall consult with each other in issuing any press releases with respect to the transactions contemplated hereby, and neither the Company nor any Purchaser nor any of the Placement Agents shall issue any such press release or otherwise make any such public statement without the prior consent of the Company, with respect to any press release of any Purchaser or any of the Placement Agents, or without the prior consent of the Placement Agents, with respect

to any press release of the Company, except if such disclosure is required by applicable law, rule or regulation, in which case the disclosing party shall promptly provide the other party with prior notice of such public statement or communication.

4.5 Non-Public Information.

The Company covenants and agrees that neither it nor any other Person acting on its behalf will provide any Purchaser or its agents or counsel with any information that the Company believes constitutes material non-public information, unless prior thereto such Purchaser shall have executed a written agreement regarding the confidentiality and use of such information. The Company understands and confirms that each Purchaser shall be relying on the foregoing covenant in effecting transactions in securities of the Company.

4.6 Use of Proceeds.

The Company covenants and agrees that the proceeds from the sale of the Preferred Stock and Warrants shall be used by the Company for working capital and general corporate purposes; under no circumstances shall any portion of the proceeds be applied to:

- (i) accelerated repayment of debt existing on the date hereof (other than payment of trade payables in the ordinary course of the Company's business and consistent with prior practices);
- (ii) the payment of dividends or other distributions on any capital stock of the Company;
- (iii) the purchase of debt or equity securities of any Person for cash, including the Company and its Subsidiaries, except in connection with investment of excess cash in high quality (A1/P1 or better) money market instruments having maturities of one year or less;
- (iv) any expenditure not directly related to the business of the Company; or
- (v) the redemption of any Company equity or equity-equivalent securities.

4.7 Reservation of Preferred Stock and Common Stock.

As of the date hereof, the Company has reserved and the Company shall continue to reserve and keep available at all times, free of preemptive rights, a sufficient number of shares of (a) Preferred Stock for the purpose of enabling the Company to issue Preferred Shares pursuant to this Agreement and (b) Common Stock for the purpose of enabling the Company to issue Conversion Shares issuable upon conversion of the Preferred Stock and Warrant Shares issuable upon exercise of the Warrants. If, on any date, the number of authorized but unissued (and otherwise unreserved) shares of Common Stock plus the number of shares of authorized but unissued Common Stock reserved for issuance upon conversion of the Preferred Stock and exercise of the Warrants is less than 130% of (i) the Required Minimum on such date, minus (ii) the number of shares of Common Stock previously issued pursuant to the Transaction Documents, then the Board of Directors shall use commercially reasonable efforts to amend the Company's certificate or articles of incorporation to increase the number of authorized but

unissued shares of Common Stock to at least the Required Minimum at such time (minus the number of shares of Common Stock previously issued pursuant to the Transaction Documents), as soon as possible and in any event not later than the 75th day after such date; provided that the Company will not be required at any time to authorize a number of shares of Common Stock greater than the maximum remaining number of shares of Common Stock that could possibly be issued after such time pursuant to the Transaction Documents.

4.8 Listing of Common Stock.

The Company hereby agrees that, from time to time, if the Company applies to have the Common Stock traded on any Trading Market, it will include in such application the Conversion Shares and the Warrant Shares, and will take such other action as is necessary to cause the Conversion Shares and Warrant Shares to be listed on such Trading Market as promptly as possible.

4.9 Business Operations. Until the earlier of: (i) the third anniversary of the Closing Date and (ii) the date that the Purchasers own less than 10% of the Preferred Shares originally issued pursuant to this Agreement or Conversion Shares issuable upon conversion thereof, the Company shall comply with the following covenants:

(a) Insurance. The Company and its Subsidiaries shall maintain insurance policies such that the representations contained in the first sentence of Section 3.1(p) hereof continue to be true and correct and shall, from time to time upon the written request of the Purchasers, promptly furnish or cause to be furnished to the Purchasers evidence, in form and substance reasonably satisfactory to the Purchasers, of the maintenance of all insurance maintained by it.

(b) Corporate Existence; Licenses. The Company shall preserve and maintain and cause its Subsidiaries to preserve and maintain their corporate existence and good standing in the jurisdiction of their incorporation and the rights, privileges and franchises of the Company and its Subsidiaries (except, in each case, in the event of a merger or consolidation in which the Company or its Subsidiaries, as applicable, is not the surviving entity) in each case where the failure to so preserve or maintain could have a Material Adverse Effect on the financial condition, business or operations of the Company and its Subsidiaries taken as a whole. The Company shall, and shall cause its Subsidiaries to, maintain at all times all material licenses or permits necessary to the conduct of its business and as required by any governmental agency or instrumentality thereof, including without limitation all Food and Drug Administration clearances and approvals.

(c) Taxes and Claims. The Company and its Subsidiaries shall duly pay and discharge (a) all taxes, assessments and governmental charges upon or against the Company or its properties or assets prior to the date on which penalties attach thereto, unless and to the extent that such taxes are being diligently contested in good faith and by appropriate proceedings, and appropriate reserves therefor have been established, and (b) all lawful claims, whether for labor, materials, supplies, services or anything else which might or could, if unpaid, become a lien or charge upon the properties or assets of the Company or its Subsidiaries, unless and to the extent only that the same are being contested in good faith and by appropriate proceedings and appropriate reserves therefor have been established.

(d) Affiliate Transactions. Except for transactions approved by the Company's Audit Committee or a majority of the disinterested members of the board of directors of the Company, neither the Company nor any of its Subsidiaries shall enter into any transaction with any (i) director, officer, employee or holder of more than 5% of the outstanding capital stock of any class or series of capital stock of the Company or any of its Subsidiaries, (ii) member of the immediate family of any such person, or (iii) corporation, partnership, trust or other entity in which any such person, or member of the immediate family of any such person, is a director, officer, trustee, partner or holder of more than 5% of the outstanding capital stock thereof.

4.10 Securities Law Compliance.

(a) Securities Act. The Company shall timely prepare and file with the Securities and Exchange Commission the form of notice of the sale of securities pursuant to the requirements of Regulation D regarding the sale of the Preferred Stock and Warrants under this Agreement.

(b) State Securities Law Compliance – Sale. The Company shall timely prepare and file such applications, consents to service of process (but not including a general consent to service of process) and similar documents and take such other steps and perform such further acts as shall be required by the state securities law requirements of each jurisdiction where a Purchaser resides, as indicated on Schedule 1, with respect to the sale of the Preferred Stock and Warrants under this Agreement.

(c) State Securities Law Compliance – Resale. Beginning no later than 30 days following any date, from time to time, on which the Common Stock is no longer a "covered security" under Section 18(b)(1)(A) of the Securities Act and continuing until either (i) the Purchasers have sold all of their Conversion Shares and Warrant Shares under a registration statement pursuant to the Investor Rights Agreement or (ii) the Common Stock becomes a "covered security" under Section 18(b)(1)(A) of the Securities Act, the Company shall maintain within either Moody's Industrial Manual or Standard and Poor's Standard Corporation Descriptions (or any successors to these manuals which are similarly qualified as "recognized securities manuals" under state Blue Sky laws) an updated listing containing (i) the names of the officers and directors of the Company, (ii) a balance sheet of the Company as of a date that is at no time older than eighteen months and (iii) a profit and loss statement of the Company for either the preceding fiscal year or the most recent year of operations.

4.11 Poison Pill. From time to time, for as long as any Purchaser holds any Securities, the Company and its Board of Directors shall take 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 Certificate of Incorporation (or similar charter documents) or the laws of its state of incorporation that is or could become applicable to the Purchasers as a result of the Purchasers and the Company fulfilling their obligations or exercising their rights under this Agreement and the Transaction Documents, including without limitation the Company's issuance of the Securities and the Purchasers' ownership of the Securities.

4.12 Surrender of Promissory Notes. Each Purchaser surrendering Promissory Notes for cancellation in payment of any portion of such Purchaser's Subscription Amount that does

not deliver such original Promissory Notes to the Company prior to the Closing, hereby covenants to deliver such original Promissory Notes to the Company as soon as practicable following the Closing Date.

4.13 Subsequent Equity Sales.

(a) From the date hereof until 45 days after the Effective Date, neither the Company nor any Subsidiary shall issue shares of Common Stock or Common Stock Equivalents; provided, however, the 45 day period set forth in this Section 4.13 shall be extended for the number of Trading Days during such period in which (i) trading in the Common Stock is suspended by any Trading Market, or (ii) following the Effective Date, the Registration Statement is not effective or the prospectus included in the Registration Statement may not be used by the Purchasers for the resale of the Underlying Shares; provided, however that the Company may issue shares of Common Stock or Common Stock Equivalents, with an aggregate purchase price not to exceed \$15,000,000 (including the purchase price of the Securities sold pursuant to this Agreement) and on terms that are no less favorable to the Company than the terms of the transactions contemplated by this Agreement, at any time from the date hereof until the date that the Initial Registration Statement (as defined in the Investor Rights Agreement) is filed.

(b) From the date hereof until such time as no Purchaser holds any of the Securities, the Company shall be prohibited from effecting or entering into an agreement to effect any Subsequent Financing involving a Variable Rate Transaction. "Variable Rate Transaction" means a transaction in which the Company issues or sells (i) any debt or equity securities that are convertible into, exchangeable or exercisable for, or include the right to receive additional shares of Common Stock either (A) at a conversion, exercise or exchange rate or other price that is based upon and/or varies with the trading prices of or quotations for the shares of Common Stock at any time after the initial issuance of such debt or equity securities, or (B) with a conversion, exercise or exchange price that is subject to being reset at some future date after the initial issuance of such debt or equity security or upon the occurrence of specified or contingent events directly or indirectly related to the business of the Company or the market for the Common Stock or (ii) enters into any agreement, including, but not limited to, an equity line of credit, whereby the Company may sell securities at a future determined price.

4.14 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 Securities or otherwise.

ARTICLE V

INDEMNIFICATION, TERMINATION AND DAMAGES

5.1 Survival of Representations.

Except as otherwise provided herein, the representations and warranties of the Company and the Purchasers contained in or made pursuant to this Agreement shall survive the execution and delivery of this Agreement and the Closing Date and shall continue in full force and effect for a period of three (3) years from the Closing Date. The Company's and the Purchasers' warranties and representations shall in no way be affected or diminished in any way by any investigation of (or failure to investigate) the subject matter thereof made by or on behalf of the Company or the Purchasers.

5.2 Indemnification.

The Company agrees to indemnify and hold harmless the Purchasers, their Affiliates, each of their officers, directors, employees and agents and their respective successors and assigns, from and against any losses, damages, or expenses which are caused by or arise out of (i) any breach or default in the performance by the Company of any covenant or agreement made by the Company in this Agreement or in any of the Transaction Documents; (ii) any breach of warranty or representation made by the Company in this Agreement or in any of the Transaction Documents; (iii) any and all third party actions, suits, proceedings, claims, demands, judgments, costs and expenses (including reasonable legal fees and expenses) incident to any of the foregoing; and/or (iv) any action instituted against a Purchaser in any capacity, 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).

5.3 Indemnity Procedure.

A party or parties hereto agreeing to be responsible for or to indemnify against any matter pursuant to this Agreement is referred to herein as the "*Indemnifying Party*" and the other party or parties claiming indemnity is referred to as the "*Indemnified Party*". An Indemnified Party under this Agreement shall, with respect to claims asserted against such party by any third party, give written notice to the Indemnifying Party of any liability which might give rise to a claim for indemnity under this Agreement within sixty (60) Business Days of the receipt of any written claim from any such third party, but not later than twenty (20) days prior to the date any answer or responsive pleading is due, and with respect to other matters for which the Indemnified Party may seek indemnification, give prompt written notice to the Indemnifying Party of any liability which might give rise to a claim for indemnity; *provided, however*, that any failure to give such notice will not waive any rights of the Indemnified Party except to the extent the rights of the Indemnifying Party are materially prejudiced.

The Indemnifying Party shall have the right, at its election, to take over the defense or settlement of such claim by giving written notice to the Indemnified Party at least fifteen (15) days prior to the time when an answer or other responsive pleading or notice with respect thereto is required. If the Indemnifying Party makes such election, it may conduct the defense of such claim through counsel of its choosing (subject to the Indemnified Party's approval of such counsel, which approval shall not be unreasonably withheld or delayed), shall be solely responsible for the expenses of such defense and shall be bound by the results of its defense or settlement of the claim. The Indemnifying Party shall not settle any such claim without prior notice to and consultation with the Indemnified Party, and no such settlement involving any equitable relief or which might have an adverse effect on the Indemnified Party may be agreed to without the written consent of the Indemnified Party (which consent shall not be unreasonably withheld or delayed). So long as the Indemnifying Party is diligently contesting any such claim in good faith, the Indemnified Party may pay or settle such claim only at its own expense and the Indemnifying Party will not be responsible for the fees of separate legal counsel to the Indemnified Party, unless the named parties to any proceeding include both parties or representation of both parties by the same counsel would be inappropriate in the reasonable opinion of counsel to the Indemnified Party, due to conflicts of interest or otherwise. If the Indemnifying Party does not make such election, or having made such election does not, in the reasonable opinion of the Indemnified Party proceed diligently to defend such claim, then the Indemnified Party may (after written notice to the Indemnifying Party), at the expense of the Indemnifying Party, elect to take over the defense of and proceed to handle such claim in its discretion and the Indemnifying Party shall be bound by any defense or settlement that the Indemnified Party may make in good faith with respect to such claim. In connection therewith, the Indemnifying Party will fully cooperate with the Indemnified Party should the Indemnified Party elect to take over the defense of any such claim. The parties agree to cooperate in defending such third party claims and the Indemnified Party shall provide such cooperation and such access to its books, records and properties (subject to the execution of appropriate non-disclosure agreements) as the Indemnifying Party shall reasonably request with respect to any matter for which indemnification is sought hereunder; and the parties hereto agree to cooperate with each other in order to ensure the proper and adequate defense thereof.

With regard to claims of third parties for which indemnification is payable hereunder, such indemnification shall be paid by the Indemnifying Party upon the earlier to occur of: (i) the entry of a judgment against the Indemnified Party and the expiration of any applicable appeal period, or if earlier, five (5) days prior to the date that the judgment creditor has the right to execute the judgment; (ii) the entry of an unappealable judgment or final appellate decision against the Indemnified Party; or (iii) a settlement of the claim. Notwithstanding the foregoing, the reasonable expenses of counsel to the Indemnified Party shall be reimbursed on a current basis by the Indemnifying Party. With regard to other claims for which indemnification is payable hereunder, such indemnification shall be paid promptly by the Indemnifying Party upon demand by the Indemnified Party.

ARTICLE VI

MISCELLANEOUS

6.1 Fees and Expenses.

The Company shall be responsible for the payment of the Purchasers' reasonable and documented legal fees and other third-party expenses relating to the preparation, negotiation and execution of this Agreement and the Transaction Documents and the consummation of the transactions contemplated herein.

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 and understandings, oral or written, with respect to such matters, which the parties acknowledge have been merged into such documents, exhibits and schedules.

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 at the facsimile number specified on the signature pages attached hereto 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 on the signature pages attached hereto 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, 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 Purchasers, at each Purchaser's address set forth under its name on Schedule 1 attached hereto, or with respect to the Company, addressed to:

Access Pharmaceuticals, Inc.
2600 Stemmons Freeway, Suite 176
Dallas, Texas 75207
Attention: President
Facsimile No.: (214) 905-5101

or to such other address or addresses or facsimile number or numbers as any such party may most recently have designated in writing to the other parties hereto by such notice. Copies of notices to the Company shall be sent to:

Bingham McCutchen LLP
150 Federal Street
Boston, Massachusetts 02110
Attention: John J. Concannon, III
Facsimile No.: (617) 951-8736

Copies of notices to any Purchaser shall be sent to the addresses, if any, listed on Schedule 1 attached hereto.

6.4 Amendments; Waivers.

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 the Purchasers holding 66% in interest of the Securities then outstanding or, in the case of a waiver, by the party against whom enforcement of any such waiver is sought; provided, however that any such amendment or waiver that has a disproportionately adverse effect on any Purchaser shall require the consent of such Purchaser. 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.

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.

6.6 Successors and Assigns.

This Agreement shall be binding upon and inure to the benefit of the parties and their successors and permitted assigns. The Company may not assign this Agreement or any rights or obligations hereunder without the prior written consent of each Purchaser. Any Purchaser may assign any or all of its rights under this Agreement to any Person, provided such transferee agrees in writing to be bound, with respect to the transferred Securities, by the provisions hereof 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 as otherwise set forth in Article V.

6.8 Governing Law.

All questions concerning the construction, validity, enforcement and interpretation of the Transaction Documents 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.

6.9 Jurisdiction; Venue; Service of Process.

This Agreement shall be subject to the exclusive jurisdiction of the Federal District Court, Southern District of New York and if such court does not have proper jurisdiction, the State Courts of New York County, New York. The parties to this Agreement agree that any breach of any term or condition of this Agreement shall be deemed to be a breach occurring in the State of New York by virtue of a failure to perform an act required to be performed in the State of New York and irrevocably and expressly agree to submit to the jurisdiction of the Federal District Court, Southern District of New York and if such court does not have proper jurisdiction, the State Courts of New York County, New York for the purpose of resolving any disputes among the parties relating to this Agreement or the transactions contemplated hereby. The parties irrevocably waive, to the fullest extent permitted by law, any objection which they may now or hereafter have to the laying of venue of any suit, action or proceeding arising out of or relating to this Agreement, or any judgment entered by any court in respect hereof brought in New York County, New York, and further irrevocably waive any claim that any suit, action or proceeding brought in Federal District Court, Southern District of New York and if such court does not have proper jurisdiction, the State Courts of New York County, New York has been brought in an inconvenient forum. Each of the parties hereto consents to process being served in any such suit, action or proceeding, by mailing a copy thereof 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 in this Section 6.9 shall affect or limit any right to serve process in any other manner permitted by law.

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, 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 Replacement of Securities.

If any certificate or instrument evidencing any of the 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 thereof, a new certificate or instrument, but only upon receipt of evidence reasonably satisfactory to the Company of such loss, theft or destruction and customary and reasonable indemnity (but no bond shall be required), if requested by the Company.

6.13 Remedies.

In addition to being entitled to exercise all rights provided herein or granted by law, including recovery of damages, each of the Purchasers and the Company will be entitled to specific performance under the Transaction Documents. The parties agree that monetary damages may not be adequate compensation for any loss incurred by reason of any breach of obligations described in the foregoing sentence and hereby agrees to waive in any action for specific performance of any such obligation the defense that a remedy at law would be adequate.

6.14 Payment Set Aside.

To the extent that the Company makes a payment or payments to any Purchaser pursuant to any Transaction Document or a Purchaser enforces or exercises its rights thereunder, and such payment or payments or the proceeds of such enforcement or exercise or any part thereof are subsequently invalidated, declared to be fraudulent or preferential, set aside, recovered from, disgorged by or are required to be refunded, repaid or otherwise restored to the Company, a trustee, receiver or any other person under any law (including, without limitation, any bankruptcy law, state or federal law, common law or equitable cause of action), then to the extent of any such restoration the obligation or part thereof originally intended to be satisfied shall, to the extent permissible under applicable law, be revived and continued in full force and effect as if such payment had not been made or such enforcement or setoff had not occurred.

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. 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 Document. 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. Each Purchaser has been represented by its own separate legal counsel in their review and negotiation of the Transaction Documents. For reasons of administrative convenience only, Purchasers and their respective counsel have chosen to communicate with the Company through Wiggan and Dana LLP, but such counsel does not represent any of the Purchasers in this transaction other than SCO Capital Partners LLC. The Company has elected to provide all Purchasers with the same terms and Transaction Documents for the convenience of the Company and not because it was required or requested to do so by the Purchasers.

6.16 Waiver of Trial by Jury.

THE PARTIES HERETO IRREVOCABLY WAIVE TRIAL BY JURY IN ANY SUIT, ACTION OR PROCEEDING RELATING TO THIS AGREEMENT OR THE TRANSACTIONS CONTEMPLATED HEREBY.

6.17 Further Assurances.

Each party agrees to cooperate fully with the other parties and to execute such further instruments, documents and agreements and to give such further written assurances as may be reasonably requested by any other party to better evidence and reflect the transactions described herein and contemplated hereby and to carry into effect the intents and purposes of this Agreement, and further agrees to take promptly, or cause to be taken, all actions, and to do promptly, or cause to be done, all things necessary, proper or advisable under applicable law to consummate and make effective the transactions contemplated hereby, to obtain all necessary waivers, consents and approvals, to effect all necessary registrations and filings, and to remove any injunctions or other impediments or delays, legal or otherwise, in order to consummate and make effective the transactions contemplated by this Agreement for the purpose of securing to the parties hereto the benefits contemplated by this Agreement.

6.18 Termination. This Agreement may be terminated by any Purchaser, as to such Purchaser's obligations hereunder only and without any effect whatsoever on the obligations between the Company and the other Purchasers, by written notice to the other parties, if the Closing has not been consummated on or before the fifth business day following the date hereof; provided, however, that such termination will not affect the right of any party to sue for any breach by the other party (or parties).

[Signature pages follow.]

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

COMPANY:

ACCESS PHARMACEUTICALS, INC.

By: /s/ Stephen Seiler

Name: Stephen Seiler

Title: CEO

PURCHASERS:

Print Exact Name: _____

By: _____ /s/ by each Purchaser on Schedule 1

Name: _____

Title: _____

Address: _____

Telephone: _____

Facsimile: _____

Email: _____

SSN/EIN: _____

Amount of Investment: \$ _____

[Omnibus Access Pharmaceuticals, Inc.
Preferred Stock and Warrant Purchase Agreement Signature Page]

Schedule 1

to Preferred Stock and Warrant Purchase Agreement

Purchasers, Shares of Preferred Stock and Warrants

Name, Address and Fax Number of Purchaser	Shares of Preferred Stock Purchased	Common Stock Underlying Warrants	Description of Promissory Notes to be Cancelled including Actual Principal Amount	Promissory Note Category [Deemed Value of Notes for Purposes of Exchange for Preferred Stock	Purchase Price and Value of Promissory Notes Cancelled as Applicable
Beach Capital LLC 1285 Avenue of the Americas, 35 th Fl. New York, NY 10019 Fax: 212-554-4058	154,2898	94,288	Amended and Restated 7.5% Secured Convertible Promissory Note Due November 15, 2007, Dated March 30, 2007 (No. PN-2006-2-1AR) (Original Principal Amt: \$500,000.00) (Interest Amt: \$65,729.17)	A [\$1,542,897.73]	\$565,729.17
Brio Capital L.P. 401 E. 34 th St. Suite South 33C New York, NY 10016 Fax: 646-390-2158	15	25,000	n/a	n/a	\$150,000.00

<u>Name, Address and Fax Number of Purchaser</u>	<u>Shares of Preferred Stock Purchased</u>	<u>Common Stock Underlying Warrants</u>	<u>Description of Promissory Notes to be Cancelled including Actual Principal Amount</u>	<u>Promissory Note Category [Deemed Value of Notes for Purposes of Exchange for Preferred Stock</u>	<u>Purchase Price and Value of Promissory Notes Cancelled as Applicable</u>
Catalytix LDC Life Science Hedge AC CIBC Bank and Trust Company (Cayman) Ltd. CIBC Financial Centre 11 Roy's Drive P.O. Box 694 GT Grand Cayman Cayman Islands B.W.I. Attn: Martin Laidlaw	5	8,333	n/a	n/a	\$50,000.00
With a copy to: Theodore E. Kalem Array Capital Management LLC 425 5 th Ave, Ste. 28D New York, NY 10016					
Cobblestone Asset Management LLC 11 Lakeview Ave. Sleepy Hollow, NY 10591 Fax: 212-259-2093	25	41,667	n/a	n/a	\$250,000.00
Cranshire Capital, L.P. 3100 Dundee Rd., #703 Northbrook, IL 60062 Fax: 847-562-9031	50.0001	83,333	n/a	n/a	\$500,001.00

Name, Address and Fax Number of Purchaser	Shares of Preferred Stock Purchased	Common Stock Underlying Warrants	Description of Promissory Notes to be Cancelled including Actual Principal Amount	Promissory Note Category [Deemed Value of Notes for Purposes of Exchange for Preferred Stock	Purchase Price and Value of Promissory Notes Cancelled as Applicable
Credit Suisse Securities (USA) LLC c/o Greg Grimaldi 11 Madison Ave., 3d Fl. New York, NY 100100 Fax: 212-935-7716	100	166,667	n/a	n/a	\$1,000,000.00
Enable Growth Partners LP One Ferry Building, Suite 255 San Francisco, CA 94111 Fax: 415-677-1580	50	83,333	n/a	n/a	\$500,000.00

Name, Address and Fax Number of Purchaser	Shares of Preferred Stock Purchased	Common Stock Underlying Warrants	Description of Promissory Notes to be Cancelled including Actual Principal Amount	Promissory Note Category [Deemed Value of Notes for Purposes of Exchange for Preferred Stock]	Purchase Price and Value of Promissory Notes Cancelled as Applicable
Lake End Capital LLC 33 Tall Oaks Dr. Summit, NJ 07901 Fax:	154,2898	94,288	Amended and Restated 7.5% Secured Convertible Promissory Note Due November 15, 2007, Dated March 30, 2007 (No. PN-2006-3-1AR) (Original Principal Amt.: \$500,000.00) (Interest Amt: \$ 65,729.17)	A [\$1,542,897.73]	\$565,729.17
	29,4375	17,990	Amended and Restated 7.5% Secured Convertible Promissory Note Due November 15, 2007, Dated March 30, 2007 (No. PN-2006-FO2-1AR) (Original Principal Amt: \$100,000.00) (Interest Amt: \$7937.50)	A [\$294,375.00]	107,937.50
	29,1932	17,840	Amended and Restated 7.5% Secured Convertible Promissory Note Due November 15, 2007, Dated March 30, 2007 (No. PN-2006-DEC-2-1AR) (Original Principal Amt.: \$100,000.00) (Interest Amt: \$7,041.67)	A [\$291,931.83]	107,041.67
Dennis Lavallo 1201 Yale Place #1409 Minneapolis, MN 55403 Fax: 612-455-5600	9	15,000	n/a	n/a	\$90,000.00
Midsummer Investment, Ltd. 295 Madison Ave., 38 th Fl. New York, NY 10017 Fax: 212-624-5040	150	250,000	n/a	n/a	\$1,500,000.00

Name, Address and Fax Number of Purchaser	Shares of Preferred Stock Purchased	Common Stock Underlying Warrants	Description of Promissory Notes to be Cancelled including Actual Principal Amount	Promissory Note Category [Deemed Value of Notes for Purposes of Exchange for Preferred Stock]	Purchase Price and Value of Promissory Notes Cancelled as Applicable
Oracle Institutional Partners LP Oracle Partners, LP 200 Greenwich Ave. Greenwich, CT 06830 Fax:	76.0800	126,800	7.0% (Subject to Adjustment) Convertible Promissory Note Due November 16, 2007 (Original Principal Amt.: \$698,500.00) (Interest Amt: \$62,300.38)	B	\$760,800.38
Oracle Offshore Ltd. Oracle Partners, LP 200 Greenwich Ave. Greenwich, CT 06830 Fax:	14.3773	23,962	7.0% (Subject to Adjustment) Convertible Promissory Note Due November 16, 2007 (Original Principal Amt.: \$132,000.00) (Interest Amt.: \$11,773.50)	B	\$143,773.30
Oracle Partners, LP 200 Greenwich Ave. Greenwich, CT 06830 Fax:	274.9664	458,277	7.0% (Subject to Adjustment) Convertible Promissory Note Due November 16, 2007 (Original Principal Amt.: \$2,524,500.00) (Interest Amt.: \$225,164.36)	B	\$2,749,664.36
Perceptive Life Sciences Master Fund Ltd. 499 Park Ave., 25 th Fl. New York, NY 10022 Fax: 646-205-5301	200	333,333	n/a	n/a	\$2,000,000.00
Rockmore Investment Master Fund Ltd. c/o Rockmore Capital LLC 150 E. 58 th St. New York, NY 10155 Fax: 212-258-2315	50	83,333	n/a	n/a	\$500,000.00

Name, Address and Fax Number of Purchaser	Shares of Preferred Stock Purchased	Common Stock Underlying Warrants	Description of Promissory Notes to be Cancelled including Actual Principal Amount	Promissory Note Category [Deemed Value of Notes for Purposes of Exchange for Preferred Stock	Purchase Price and Value of Promissory Notes Cancelled as Applicable
SAM Oracle Investments, Inc. Oracle Partners, LP 200 Greenwich Ave. Greenwich, CT 06830 Fax:	71.8867	119,811	7.0% (Subject to Adjustment) Convertible Promissory Note Due November 16, 2007 (Original Principal Amt.: \$660,000.00) (Interest Amt.: \$58,866.50)	B	\$718,866.50

<u>Name, Address and Fax Number of Purchaser</u>	<u>Shares of Preferred Stock Purchased</u>	<u>Common Stock Underlying Warrants</u>	<u>Description of Promissory Notes to be Cancelled including Actual Principal Amount</u>	<u>Promissory Note Category [Deemed Value of Notes for Purposes of Exchange for Preferred Stock</u>	<u>Purchase Price and Value of Promissory Notes Cancelled as Applicable</u>
	1,234.3182	754,306	Amended and Restated 7.5% Secured Convertible Promissory Note Due November 15, 2007, Dated March 30, 2007 (No. PN-2006-1-1AR) (Original Principal Amt.: \$4,000,000.00) (Interest Amt.: \$525,833.33)	A [\$12,343,181.81]	\$4,525,833.33
SCO Capital Partners LLC 1285 Avenue of the Americas 35 th Fl. New York, NY 10019 Fax: 212-554-4058	117.7500	71,958	Amended and Restated 7.5% Secured Convertible Promissory Note Due November 15, 2007, Dated March 30, 2007 (No. PN-2006-FO1-1AR) (Original Principal Amt.: \$400,000.00) (Interest Amt.: \$31,750.00)	A [\$1,177,500.00]	\$431,750.00
With a copy to: Michael Grundei, Esq. 400 Atlantic St. P.O. Box 110325 Stamford, CT 06911-0325	116.7727	71,361	Amended and Restated 7.5% Secured Convertible Promissory Note Due November 15, 2007, Dated March 30, 2007 (No. PN-2006-DEC -1-1AR) (Original Principal Amt.: \$400,000.00) (Interest Amt.: \$28,166.67)	A [\$1,167,727.28]	428,166.67
	100	166,667	n/a	n/a	\$1,000,000.00

Name, Address and Fax Number of Purchaser	Shares of Preferred Stock Purchased	Common Stock Underlying Warrants	Description of Promissory Notes to be Cancelled including Actual Principal Amount	Promissory Note Category [Deemed Value of Notes for Purposes of Exchange for Preferred Stock	Purchase Price and Value of Promissory Notes Cancelled as Applicable
SCO Capital Partners, L.P. 1285 Avenue of the Americas 35 th Fl. New York, NY 10019 Fax: 212-554-4058	200	333,333	n/a	n/a	\$2,000,000.00
With a copy to: Michael Grundei, Esq. 400 Atlantic St. P.O. Box 110325 Stamford, CT 06911-0325					
Totals:	3,227,3617	3,440,880			\$20,645,293.05

Placement Agent Warrants

Common Stock Underlying Placement
Agent Warrants

Name, Address and Fax Number

Copies of Notice to

Totals:

CERTIFICATE OF DESIGNATIONS, RIGHTS AND PREFERENCES
of
SERIES A CUMULATIVE CONVERTIBLE PREFERRED STOCK
of
ACCESS PHARMACEUTICALS, INC.

ACCESS PHARMACEUTICALS, INC., a Delaware corporation (the "Corporation"), pursuant to Section 151 of the General Corporation Law of the State of Delaware, does hereby make this Certificate of Designations, Rights and Preferences and does hereby state and certify that pursuant to the authority expressly vested in the Board of Directors of the Corporation (the "Board") by the Certificate of Incorporation of the Corporation, as amended to date (the "Certificate"), which authorizes the issuance of 2,000,000 shares of preferred stock, \$0.01 par value per share, in one or more series, the Board duly adopted the following resolutions, which resolutions remain in full force and effect as of the date hereof:

RESOLVED, that, pursuant to Article V of the Certificate, the Board hereby authorizes the issuance of, and fixes the designation and preferences and relative, optional and other special rights, and qualifications, limitations and restrictions, of a series of preferred stock of the Corporation consisting of 4,000 shares, par value \$0.01 per share, to be designated "Series A Cumulative Convertible Preferred Stock" (hereinafter, the "Series A Preferred Stock"); and be it

RESOLVED, that each share of Series A Preferred Stock shall rank equally in all respects and shall be subject to the following terms and provisions:

1. Dividends in Cash or in Kind. Holders shall be entitled to receive, and the Corporation shall pay, cumulative dividends at the rate per share of 6% per annum, payable semi-annually on June 30 and December 31 of each year, beginning on the first such date after Original Issue Date and on each Conversion Date (with respect only to Series A Preferred Stock being converted) (each such date, a "Dividend Payment Date") (if any Dividend Payment Date is not a Trading Day, the applicable payment shall be due on the next succeeding Trading Day) in cash, or at the Corporation's option, in duly authorized, validly issued, fully paid and non-assessable shares of Common Stock as set forth in this Section 1, or a combination thereof (the amount to be paid in shares of Common Stock, the "Dividend Share Amount"). The form of dividend payments to each Holder shall be determined in the following order of priority: (i) if funds are legally available for the payment of dividends and the Equity Conditions have not been met during the 20 consecutive Trading Days immediately prior to the applicable Dividend Payment Date, in cash only; (ii) if funds are legally available for the payment of dividends and the Equity Conditions have been met during the 20 consecutive Trading Days immediately prior to the applicable Dividend Payment Date, at the sole election of the Corporation, in cash or shares of Common Stock which shall be valued solely for such purpose at the Current Market Price ending on the Trading Day that is immediately prior to the Dividend Payment Date; (iii) if funds are not legally available for the payment of dividends and the Equity Conditions have been met during the 20 consecutive Trading Days immediately prior to the applicable Dividend Payment Date, in shares of Common Stock which shall be valued solely for such purpose at the

Current Market Price ending on the Trading Day that is immediately prior to the Dividend Payment Date; (iv) if funds are not legally available for the payment of dividends and the Equity Condition relating to an effective Registration Statement has been waived by such Holder, as to such Holder only, in unregistered shares of Common Stock which shall be valued solely for such purpose at the Current Market Price ending on the Trading Day that is immediately prior to the Dividend Payment Date; and (v) if funds are not legally available for the payment of dividends and the Equity Conditions have not been met during the 20 consecutive Trading Days immediately prior to the applicable Dividend Payment Date, then, at the election of such Holder, such dividends shall accrue to the next Dividend Payment Date or shall be accreted to, and increase, the outstanding Liquidation Preference per share of Series A Preferred Stock of such Holder. The Holders shall have the same rights and remedies with respect to the delivery of any such shares as if such shares were being issued pursuant to Section 5. On the Closing Date the Corporation shall have notified the Holders whether or not it may legally pay cash dividends as of the Closing Date. The Corporation shall promptly notify the Holders at any time the Corporation shall become able or unable, as the case may be, to legally pay cash dividends. If at any time the Corporation has the right to pay dividends in cash or Common Stock, the Corporation must provide the Holders with at least 20 Trading Days' notice of its election to pay a regularly scheduled dividend in Common Stock (the Corporation may indicate in such notice that the election contained in such notice shall continue for later periods until revised by a subsequent notice). Dividends on the Series A Preferred Stock shall accrue daily commencing on the Original Issue Date, and shall be deemed to accrue from such date whether or not earned or declared and whether or not there are profits, surplus or other funds of the Corporation legally available for the payment of dividends. Except as otherwise provided herein, if at any time the Corporation pays dividends partially in cash and partially in shares, then such payment shall be distributed ratably among the Holders based upon the number of shares of Series A Preferred Stock held by each Holder on such Dividend Payment Date. Any dividends, whether paid in cash or shares of Common Stock, that are not paid within three Trading Days following a Dividend Payment Date shall continue to accrue and shall entail a late fee, which must be paid in cash, at the rate of 18% per annum or the lesser rate permitted by applicable law (such fees to accrue daily, from the Dividend Payment Date through and including the date of payment). If at any time the Corporation delivers a notice to the Holders of its election to pay the dividends in shares of Common Stock, the Corporation shall timely file a prospectus supplement pursuant to Rule 424 disclosing such election.

(b) Dividend Periods; Dividend Rate; Calculation of Dividends.

(i) Dividend Periods. The dividend periods (each, a "Dividend Period") shall be as follows: The initial Dividend Period shall begin on the Date of Original Issue and end on the Initial Dividend Payment Date, and each Dividend Period thereafter shall commence on the day following the last day of the preceding Dividend Period and shall end on the next Dividend Payment Date.

(ii) Dividend Rate. The dividend rate on each share of Series A Preferred Stock (the "Dividend Rate"), to be paid per annum on the Liquidation Preference (as defined below) shall be 6%.

(iii) Calculation of Dividends.

(A) The amount of dividends per share of Series A Preferred Stock payable for each Dividend Period or part thereof shall be computed by multiplying the Liquidation Preference by the Dividend Factor (as defined below).

(B) The “Dividend Factor” shall be the Dividend Rate multiplied by a fraction, the numerator of which is the number of days in the applicable Dividend Period or part thereof on which the share of Series A Preferred Stock was outstanding, and the denominator of which is 365.

“Current Market Price” means, in respect of any share of Common Stock on any date herein specified:

(1) if there shall not then be a public market for the Common Stock, the fair market value per share of Common Stock as determined in good faith by an independent appraiser selected by the Holders of a majority of the then outstanding Series A Preferred Stock; or

(2) if there shall then be a public market for the Common Stock, the average of the daily market prices for the 20 consecutive trading days immediately before such date. The daily market price (the “Daily Market Price”) for each such trading day shall be (i) the closing sale price on such day on the principal stock exchange (including Nasdaq) on which such Common Stock is then listed or admitted to trading, or quoted, as applicable, (ii) if no sale takes place on such day on any such exchange, the last reported closing sale price on such day as officially quoted on any such exchange (including Nasdaq), (iii) if the Common Stock is not then listed or admitted to trading on any stock exchange, the last reported closing sale price on such day in the over-the-counter market, as furnished by the National Association of Securities Dealers Automatic Quotation System or the Pink Sheets LLC (formerly the National Quotation Bureau, Inc.), (iv) if neither such corporation at the time is engaged in the business of reporting such prices, as furnished by any similar firm then engaged in such business, or (v) if there is no such firm, as furnished by any member of the Financial Industry Regulatory Authority (“FINRA”) selected mutually by holders of a majority of the Series A Preferred Stock and the Corporation or, if they cannot agree upon such selection, as selected by two such members of the FINRA, one of which shall be selected by holders of a majority of the Series A Preferred Stock and one of which shall be selected by the Corporation.

(c) No dividends shall be declared or paid or set apart for payment on the shares of Common Stock or any other class or series of capital stock of the Corporation for any dividend period unless full cumulative dividends have been or contemporaneously are declared and paid on the Series A Preferred Stock through the most recent Dividend Payment Date. Without prejudice to the foregoing, if full cumulative dividends have not been paid on shares of the Series A Preferred Stock, all dividends declared on shares of the Series A Preferred Stock shall be paid pro rata to the holders of outstanding shares of the Series A Preferred Stock.

(d) The holders of the Series A Preferred Stock shall each be entitled to receive any dividends or distributions (other than dividends payable solely in additional Common Stock), declared by the Board and paid to the holders of Common Stock, out of any assets legally available therefor, pari passu, with the amount of such dividends to be distributed to the holders of Series A Preferred Stock on an As-Converted Basis (as defined below) immediately prior to the declaration of such dividend or distribution. “As-Converted Basis” means, as of the time of determination, that number of shares of Common Stock which a holder of Series A Preferred Stock would hold if all shares of Series A Preferred Stock held by such holder were converted into shares of Common Stock pursuant to Section 5 hereof (regardless of the number of shares of Common Stock that the Corporation is then authorized to issue) at the then applicable Conversion Value (as defined below) regardless of whether such shares of Common Stock are then authorized for issuance.

(e) The Corporation acknowledges and agrees that the capital of the Corporation (as such term is used in Section 154 of the Delaware General Corporation Law) in respect of the Series A Preferred Stock and any future issuances of the Corporation’s capital stock shall be equal to the aggregate par value of such Series A Preferred Stock or capital stock, as the case may be, and that, on or after the date of the Purchase Agreement, it shall not increase the capital of the Corporation with respect to any shares of the Corporation’s capital stock issued and outstanding on such date. The Corporation also acknowledges and agrees that it shall not create any special reserves under Section 171 of the Delaware General Corporation Law without the prior written consent of each Holder.

2. Voting Rights. Except as otherwise provided herein or as provided by law, the holders of the Series A Preferred Stock shall have full voting rights and powers, subject to the Beneficial Ownership Cap as defined in Section 5(i), if applicable, equal to the voting rights and powers of holders of Common Stock and shall be entitled to notice of any stockholders meeting in accordance with the Bylaws of the Corporation, and shall be entitled to vote, with respect to any question upon which holders of Common Stock are entitled to vote, including, without limitation, the right to vote for the election of directors, voting together with the holders of Common Stock as one class. Each holder of shares of Series A Preferred Stock shall be entitled to vote on an As-Converted Basis, determined on the record date for the taking of a vote, subject to the applicable Beneficial Ownership Cap limitations set forth in Section 5(i), or, if no record date is established, at the day prior to the date such vote is taken or any written consent of stockholders is first executed. Fractional votes shall not, however, be permitted and any fractional voting rights resulting from the above formula (after aggregating all shares into which shares of Series A Preferred Stock held by each holder could be converted) shall be rounded to the nearest whole number (with one-half being rounded upward).

3. Rights on Liquidation.

(a) In the event of any voluntary or involuntary liquidation, dissolution or winding up of the Corporation (any such event being hereinafter referred to as a “Liquidation”), before any distribution of assets of the Corporation shall be made to or set apart for the holders

of the Common Stock or any other class of preferred stock, the holders of Series A Preferred Stock shall be entitled to receive payment out of such assets of the Corporation in an amount equal to the greater of (i) the Liquidation Preference for the Series A Preferred Stock plus any accumulated and unpaid dividends (whether or not declared) on the Series A Preferred Stock, or (ii) the cash or other property distributable upon such Liquidation with respect to the shares of Common Stock into which such shares of Series A Preferred Stock, including any accrued dividends thereon, could have been converted immediately prior to such payment. "Liquidation Preference" shall mean \$10,000 per share of Series A Preferred Stock. If the assets of the Corporation available for distribution to the holders of Series A Preferred Stock shall not be sufficient to make in full the payment herein required, such assets shall be distributed pro-rata among the holders of Series A Preferred Stock based on the aggregate Liquidation Preferences of the shares of Series A Preferred Stock held by each such holder.

(b) If the assets of the Corporation available for distribution to stockholders exceed the aggregate amount of the Liquidation Preferences payable with respect to all shares of Series A Preferred Stock then outstanding, then, after the payment required by paragraph 3(a) above shall have been made or irrevocably set aside, the holders of Common Stock shall be entitled to receive, payment of a pro rata portion of such remaining assets based on the aggregate number of shares of Common Stock held by such holder.

(c) A Change of Control (as defined below) of the Corporation shall not be deemed a Liquidation, but shall instead be governed by the terms of Section 7 below.

4. Actions Requiring the Consent of Holders of Series A Preferred Stock. As long as any of the shares of Series A Preferred Stock issued pursuant to the Purchase Agreement remain outstanding, the consent of the holders of at least 66% of the shares of Series A Preferred Stock at the time outstanding, given in accordance with the Certificate of Incorporation and Bylaws of the Corporation, as amended from time to time, shall be necessary for effecting or validating any of the following transactions or acts, whether by merger, consolidation or otherwise (for the avoidance of doubt, no such consent shall be required for the Corporation to amend the Certificate merely to increase the Corporation's authorized shares of Common Stock or undesignated preferred stock):

(a) Any amendment, alteration or repeal of any of the provisions of this Certificate of Designation;

(b) Any amendment, alteration or repeal of (i) the Certificate or (ii) the Bylaws of the Corporation that will adversely affect the rights of the holders of the Series A Preferred Stock;

(c) The authorization or creation by the Corporation of, or the increase in the number of authorized shares of, any stock of any class, or any security convertible into stock of any class, or the authorization or creation of any new class of preferred stock (or any action which would result in another series of preferred stock), in each case, ranking in terms of liquidation preference, redemption rights or dividend rights, pari passu with or senior to, the Series A Preferred Stock in any manner;

(d) The redemption, purchase or other acquisition, directly or indirectly, of any shares of capital stock of the Corporation or any of its subsidiaries or any option, warrant or other right to purchase or acquire any such shares, or any other such security, other than (A) the redemption of Series A Preferred Stock pursuant to the terms hereof, (B) pursuant to the repurchase rights of the Corporation under options or restricted stock grants to directors, employees or consultants of the Corporation, in each case, granted under equity incentive plans or agreements approved by the Board or (C) the repayment (but not prepayment) of debt of the Corporation in existence on the Date of Original Issue or payment of interest thereon in accordance with the terms of such debt;

(e) The declaration or payment of any dividend or other distribution (whether in cash, stock or other property, but excluding a split or reverse split with respect to the Common Stock) with respect to the capital stock of the Corporation or any subsidiary, other than a dividend or other distribution pursuant to the terms of the Series A Preferred Stock;

(f) If the Corporation or any of its subsidiaries enters into, creates, incurs, assumes, guarantees or suffers to exist any indebtedness for borrowed money of any kind, including but not limited to, a guarantee, on or with respect to any of its property or assets now owned or hereafter acquired or any interest therein or any income or profits therefrom, other than such indebtedness that exists as of the Closing Date (as defined in the Purchase Agreement);

(g) If the Corporation or any of its subsidiaries enters into, creates, incurs, assumes or suffers to exist any liens of any kind, on or with respect to any of its property or assets now owned or hereafter acquired or any interest therein or any income or profits therefrom, other than such liens that exist as of the Closing Date (as defined in the Purchase Agreement); or

(h) If the Corporation or any of its subsidiaries enters into any agreement or understanding with respect to any of the foregoing.

5. Conversion.

(a) Right to Convert. Subject to the limitations set forth in Section 5(i) hereof, the holder of any share or shares of Series A Preferred Stock shall have the right at any time, at such holder's option, to convert all or any lesser portion of such holder's shares of Series A Preferred Stock into such number of fully paid and non-assessable shares of Common Stock as is determined by dividing (i) the aggregate Liquidation Preference of the shares of Series A Preferred Stock to be converted plus accrued and unpaid dividends thereon by (ii) the Conversion Value (as defined below) then in effect for such Series A Preferred Stock. No fractional shares or scrip representing fractional shares shall be issued upon the conversion of any Series A Preferred Stock. With respect to any fraction of a share of Common Stock called for upon any conversion, the Corporation shall pay to the holder an amount in cash equal to such fraction multiplied by the Current Market Price per share of the Common Stock.

(b) Mandatory Conversion. If a Conversion Triggering Event (as defined below) has occurred, and provided that the Corporation has delivered a written notice to the holders of the Series A Preferred Stock (the "Notice") that the Corporation intends to convert all

of the outstanding Series A Preferred Stock into Common Stock, then, subject to the limitations set forth in Section 5(i) hereof, as of the date that is sixty-five days following the date that such Notice is given (the “Mandatory Conversion Date”), the Series A Preferred Stock shall be converted into such number of fully paid and non-assessable shares of Common Stock as is determined by dividing (i) the aggregate Liquidation Preference of the shares of Series A Preferred Stock to be converted plus accrued and unpaid dividends thereon by (ii) the applicable Conversion Value (as hereinafter defined) then in effect for such Series A Preferred Stock (the “Mandatory Conversion”). Nothing in this Section 5(b) shall be construed so as to limit the right of a holder of Series A Preferred Stock to convert pursuant to Section 5(a) at any time. The Corporation may not deliver a Notice, and any Mandatory Conversion delivered by the Corporation shall not be effective, unless all of the Equity Conditions have been met on each Trading Day during the twenty day period prior to and including the later of the Mandatory Conversion Date and the Trading Day after the date that the Conversion Shares issuable pursuant to such conversion are actually delivered to the Holders pursuant to the Notice.

“Conversion Triggering Event” shall mean, such time as:

(i) The Registration Statement (as hereinafter defined) covering all of the shares of Common Stock into which the Series A Preferred Stock is convertible and into which the Warrants (as defined below) are exercisable, is effective and sales may be made pursuant thereto (or all of the shares of Common Stock into which the Series A Preferred Stock is convertible and into which the Warrants are exercisable may be sold without restriction pursuant to Rule 144(k) promulgated by the Securities and Exchange Commission under the Securities Act of 1933, as amended (the “Securities Act”)); and

(ii) either:

(A) The Daily Market Price of the Common Stock exceeds \$7.00 (subject to adjustment for stock splits, reverse splits, stock dividends and the like) or more per share and has been at or above such price per share for twenty (20) of the thirty (30) consecutive trading days immediately prior to the date on which the Corporation gives the Notice, and the average daily volume of Common Stock traded on the applicable stock exchange (including Nasdaq) for twenty (20) of the thirty (30) consecutive trading days immediately prior to the date on which the Corporation gives the Notice is not less than 100,000 shares (subject to adjustment for stock splits, reverse splits, stock dividends and the like); or

(B) The Corporation shall have closed a sale of Common Stock by the Corporation in which the aggregate gross cash proceeds of the offering to the Corporation are equal to or greater than \$10,000,000 (without giving effect to the possible conversion or exercise of any warrant, convertible security or other derivative security included in such offering) (a “Qualified Financing”). Notwithstanding the foregoing, prior to exercising a Mandatory Conversion as a result of the Conversion Triggering Event described in this Section, the Conversion Value shall be adjusted pursuant to the terms hereof if the securities issued and issuable in a Qualified Financing are issued for consideration per share less than the Conversion Value.

“Registration Statement” shall have the meaning established in the Investor Rights Agreement dated on or about the date this Certificate of Designation is filed with the Secretary of State of the State of Delaware (the “Filing Date”), by and among the Corporation and the other parties signatory thereto.

(c) Mechanics of Conversion.

(i) Such right of conversion (other than mandatory conversion) shall be exercised by the holder of shares of Series A Preferred Stock by delivering to the Corporation a conversion notice in the form attached hereto as Exhibit A (the “Conversion Notice”), appropriately completed and duly signed and specifying the number of shares of Series A Preferred Stock that the holder elects to convert (the “Converting Shares”) into shares of Common Stock, and by surrender not later than two (2) business days thereafter of the certificate or certificates representing such Converting Shares. The Conversion Notice shall also contain a statement of the name or names (with addresses and tax identification or social security numbers) in which the certificate or certificates for Common Stock shall be issued, if other than the name in which the Converting Shares are registered. Promptly after the receipt of the Conversion Notice, the Corporation shall issue and deliver, or cause to be delivered, to the holder of the Converting Shares or such holder’s nominee, a certificate or certificates for the number of shares of Common Stock issuable upon the conversion of such Converting Shares. Such conversion shall be deemed to have been effected as of the close of business on the date of receipt by the Corporation of the Conversion Notice (the “Conversion Date”), and the person or persons entitled to receive the shares of Common Stock issuable upon conversion shall be treated for all purposes as the holder or holders of record of such shares of Common Stock as of the close of business on the Conversion Date.

(ii) The Corporation shall issue certificates representing the shares of Common Stock to be received upon conversion of the Series A Preferred Stock (the “Conversion Shares”) (and certificates for unconverted Series A Preferred Stock) within three (3) business days of the Conversion Date and shall transmit the certificates by messenger or reputable overnight delivery service to reach the address designated by such holder within three (3) business days after the receipt by the Corporation of such Conversion Notice (the third business day, the “Share Delivery Date”). If certificates evidencing the Conversion Shares are not received by the holder within five (5) business days of the Conversion Notice, then the holder will be entitled to revoke and withdraw its Conversion Notice, in whole or in part, at any time prior to its receipt of those certificates. In lieu of delivering physical certificates representing the Conversion Shares or in payment of dividends hereunder, provided the Corporation’s transfer agent is participating in the Depository Trust Company (“DTC”) Fast Automated Securities Transfer (“FAST”) program, upon request of the holder, the Corporation shall use its best efforts to cause its transfer agent to electronically transmit the Common Stock issuable upon conversion or dividend payment to the holder, by crediting the account of the holder’s prime broker with DTC through its Deposit Withdrawal Agent Commission (“DWAC”) system. The time periods for delivery described above, and for delivery of Common Stock in payment of dividends hereunder, shall apply to the electronic transmittals through the DWAC system. Such holder and the Corporation agree to

coordinate with DTC to accomplish this objective. The person or persons entitled to receive the Common Stock issuable upon such conversion shall be treated for all purposes as the record holder or holders of such Common Shares at the close of business on the Conversion Date. If the conversion has not been rescinded in accordance with this paragraph and the Corporation fails to deliver to the holder such certificate or certificates (or shares through DTC) pursuant to this Section 5 (free of any restrictions on transfer or legends, if such shares have been registered) in accordance herewith, prior to the seventh trading day after the Conversion Date (assuming timely surrender of the Series A Preferred Stock certificates), as the remedy for such failure, the Corporation shall pay to such holder, in cash, on a per diem basis, an amount equal to 2% of the Liquidation Preference of all Series A Preferred Stock elected to be converted into Conversion Shares by such holder and with respect to which the Conversion Shares have not been so timely delivered, per month until such delivery takes place. Payment of such amount as the remedy for such failure shall not limit the obligation of the Corporation to deliver such Conversion Shares or the right of the holder to take any action that such holder deems necessary or appropriate to enforce such obligation.

(iii) The Corporation's obligation to issue Common Stock upon conversion of Series A Preferred Stock in accordance with this Certificate of Designation shall be absolute, is independent of any covenant of any holder of Series A Preferred Stock, and shall not be subject to: (A) any offset or defense; or (B) any claims against the holders of Series A Preferred Stock whether pursuant to this Certificate of Designation, the Preferred Stock and Warrant Purchase Agreement (the "Purchase Agreement") entered into among the Corporation and the purchasers of the Series A Preferred Stock on or about the Filing Date, the Investor Rights Agreement, the Warrants or otherwise.

(iv) Subject to the provisions of Section 5(i), in the event that a Conversion Triggering Event has occurred and the Corporation has given the Notice as required by Section 5(b), all the shares of Series A Preferred Stock shall be converted on the Mandatory Conversion Date as if the holders thereof had delivered a Conversion Notice with respect to such shares on such date. Promptly thereafter, the holders of the Series A Preferred Stock shall deliver their certificates evidencing the Series A Preferred Stock to the Corporation or its duly authorized transfer agent, and upon receipt thereof, the Corporation shall issue or cause its transfer agent to issue certificates evidencing the Common Stock into which the shares Series A Preferred Stock have been converted.

(v) If the Corporation fails to deliver to a Holder the applicable certificate or certificates by the Share Delivery Date pursuant to Section 5(c)(i), and if after such Share Delivery Date such Holder is required by its brokerage firm to purchase (in an open market transaction or otherwise), or the Holder's brokerage firm purchases, shares of Common Stock to deliver in satisfaction of a sale by such Holder of the Conversion Shares which such Holder was entitled to receive upon the conversion relating to such Share Delivery Date (a "Buy-In"), then the Corporation shall (A) pay in cash to such Holder (in addition to any other remedies available to or elected by such Holder) the amount by which (x) such Holder's total purchase price (including any brokerage commissions) for the shares of Common Stock so purchased exceeds (y) the

product of (1) the aggregate number of shares of Common Stock that such Holder was entitled to receive from the conversion at issue multiplied by (2) the actual sale price at which the sell order giving rise to such purchase obligation was executed (including any brokerage commissions) and (B) at the option of such Holder, either reissue (if surrendered) the shares of Series A Preferred Stock equal to the number of shares of Series A Preferred Stock submitted for conversion or deliver to such Holder the number of shares of Common Stock that would have been issued if the Corporation had timely complied with its delivery requirements under Section 5(c) (i). For example, if a Holder purchases shares of Common Stock having a total purchase price of \$11,000 to cover a Buy-In with respect to an attempted conversion of shares of Series A Preferred Stock with respect to which the actual sale price (including any brokerage commissions) giving rise to such purchase obligation was a total of \$10,000 under clause (A) of the immediately preceding sentence, the Corporation shall be required to pay such Holder \$1,000. The Holder shall provide the Corporation written notice indicating the amounts payable to such Holder in respect of the Buy-In and, upon request of the Corporation, evidence of the amount of such loss. Nothing herein shall limit a Holder's right to pursue any other remedies available to it hereunder, at law or in equity including, without limitation, a decree of specific performance and/or injunctive relief with respect to the Corporation's failure to timely deliver certificates representing shares of Common Stock upon conversion of the shares of Series A Preferred Stock as required pursuant to the terms hereof.

(d) Adjustment Upon Issuance of Additional Shares of Common Stock.

(i) Adjustment to Conversion Value. If at any time while any Series A Preferred Stock is outstanding the Corporation shall issue or sell any additional shares of Common Stock ("Additional Common Stock") in exchange for consideration in an amount per share of Additional Common Stock (the "Additional Common Stock Price") less than the Conversion Value at the time the shares of Additional Common Stock are issued or sold, then the Conversion Value immediately prior to such issue or sale shall be reduced to an amount equal to the Additional Common Stock Price.

(ii) Issuance of Common Stock Equivalents. If at any time while the Series A Preferred Stock is outstanding the Corporation shall issue or sell any warrants or other rights to subscribe for or purchase any additional shares of Common Stock (regardless of the number of shares of Common Stock that the Corporation is then authorized to issue) or any securities convertible, directly or indirectly, into shares of Common Stock (collectively, "Common Stock Equivalents"), whether or not the rights to exchange or convert thereunder are immediately exercisable, and the effective price per share for which Common Stock is issuable upon the exercise, exchange or conversion of such Common Stock Equivalents (the "Common Stock Equivalent Price") shall be less than the current Conversion Value in effect immediately prior to the time of such issue or sale, then the current Conversion Value shall be adjusted as provided in Section 5(d)(i) on the basis that the additional shares of Common Stock issuable pursuant to all such Common Stock Equivalents shall be deemed to have been issued at the Common Stock Equivalent Price, as of the date of the actual issuance of such Common Stock Equivalents. No further adjustments to the current Conversion Value shall be made under

this Section 5(d) upon the actual issue of such Common Stock upon the exercise, conversion or exchange of such Common Stock Equivalents.

(iii) Certain Issues of Common Stock or Common Stock Equivalents Excepted. The provisions of Paragraph 5(d) shall not apply to any issuance of Additional Common Stock for which an adjustment is provided under Paragraph 5(g). The Corporation shall not be required to make any adjustment of the Conversion Value pursuant to Paragraph 5(d) in the case of the issuance of (A) shares of Common Stock upon the conversion of the Series A Preferred Stock, the exercise of the Warrants issued pursuant to the Purchase Agreement (the "Warrants") or as payment of dividends on the Series A Preferred Stock, (B) shares of Common Stock upon the exercise of any warrants or options or upon conversion of any convertible promissory notes, in each case, outstanding on the Filing Date; provided that such securities have not been amended since the date of date of the Purchase Agreement to increase the number of such securities or to decrease the exercise, exchange or conversion price of such securities, (C) shares of Common Stock, stock awards or options under, or the exercise of any options granted pursuant to, any stock-based compensation plans of the Corporation duly adopted by a majority of the non-employee members of the Board of Directors of the Corporation or a majority of the members of a committee of non-employee directors established for such purpose (in each case, at issuance or exercise prices at or above fair market value), (D) shares of Common Stock pursuant to a stock split, combination or subdivision of the outstanding shares of Common Stock, (E) shares of Common Stock or Common Stock Equivalents issued in connection with a bona-fide strategic transaction approved by the Board, the primary purpose of which is not to provide financing to the Corporation or (F) shares of Series A Preferred Stock and warrants to purchase Common Stock, in each case, issued pursuant to the Purchase Agreement ((A) through (F) collectively, "Permitted Issuances").

(iv) Superseding Adjustment. If, at any time after any adjustment to the current Conversion Value shall have been made pursuant to Section 5(d) as the result of any issuance of Common Stock Equivalents, (x) the right to exercise, exchange or convert all of the Common Stock Equivalents shall expire unexercised, or (y) the conversion rate or consideration per share for which shares of Common Stock are issuable pursuant to such Common Stock Equivalents shall be increased solely by virtue of provisions therein contained for an automatic increase in such conversion rate or consideration per share, as the case may be, upon the occurrence of a specified date or event, then, unless any of such Common Stock Equivalents have previously been converted or exercised at the original price, any such previous adjustments to the Conversion Value shall be rescinded and annulled and the additional shares of Common Stock which were deemed to have been issued by virtue of the computation made in connection with the adjustment so rescinded and annulled shall no longer be deemed to have been issued by virtue of such computation. Upon the occurrence of an event set forth in this Section 5(d)(iv) above, there shall be a recomputation made of the effect of such Common Stock Equivalents on the basis of treating any such Common Stock Equivalents which then remain outstanding as having been granted or issued immediately after the time of such increase of the conversion rate or consideration per share for which shares of Common Stock or other property are issuable under such Common Stock Equivalents; whereupon a new adjustment to the current Conversion Value shall be made, which new adjustment shall supersede the previous adjustment so rescinded

and annulled; provided, however, such readjustment to the Conversion Value described in this Section shall not effect any conversions of the Series A Preferred Stock effected at any time prior to such readjustment.

(e) Beneficial Ownership Cap. To the extent that any shares of Series A Preferred Stock are not automatically converted upon the occurrence of a Mandatory Conversion on account of the application of Section 5(i), such shares of Series A Preferred Stock shall be deemed converted automatically under this Section 5 at the first moment thereafter when Section 5(i) would not prevent such conversion. Notwithstanding the preceding sentence, upon the occurrence of the Mandatory Conversion, the right to: (a) accrue dividends on Series A Preferred Stock (other than dividends pursuant to Section 1(e) hereof); (b) the Liquidation Preference of the Series A Preferred Stock, including, without limitation, the right to be treated as holders of Series A Preferred Stock in the event of a merger or consolidation; (c) the veto rights described in Section 4 hereof; (d) the participation rights provided in Section 10 hereof; and (e) the redemption rights in Section 13 hereof shall cease immediately.

(f) Conversion Value. The initial conversion value for the Series A Preferred Stock shall be \$3.00 per share, such value to be subject to adjustment in accordance with the provisions of this Section 5. Such conversion value in effect from time to time, as adjusted pursuant to this Section 5, is referred to herein as a "Conversion Value." All of the remaining provisions of this Section 5 shall apply separately to each Conversion Value in effect from time to time with respect to Series A Preferred Stock.

(g) Stock Dividends, Subdivisions and Combinations. If at any time while the Series A Preferred Stock is outstanding, the Corporation shall:

- (i) cause the holders of its Common Stock to be entitled to receive a dividend payable in, or other distribution of, additional shares of Common Stock,
- (ii) subdivide its outstanding shares of Common Stock into a larger number of shares of Common Stock, or
- (iii) combine its outstanding shares of Common Stock into a smaller number of shares of Common Stock,

then in each such case the Conversion Value shall be multiplied by a fraction of which the numerator shall be the number of shares of Common Stock (excluding treasury shares, if any) outstanding immediately before such event and of which the denominator shall be the number of shares of Common Stock outstanding immediately after such event. Any adjustment made pursuant to clause (i) of this Paragraph 5(g) 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 clauses (ii) or (iii) of this Paragraph 5(g) shall become effective immediately after the effective date of such subdivision or combination. If any event requiring an adjustment under this paragraph occurs during the period that a Conversion Value is calculated hereunder, then the calculation of such Conversion Value shall be adjusted appropriately to reflect such event.

(h) Certain Other Distributions. If at any time while the Series A Preferred Stock is outstanding the Corporation shall take a record of the holders of its Common Stock for the purpose of entitling them to receive any dividend or other distribution of:

(i) cash,

(ii) any evidences of its indebtedness, any shares of stock of any class or any other securities or property or assets of any nature whatsoever (other than cash or additional shares of Common Stock as provided in Section 5(g) hereof), or

(iii) any warrants or other rights to subscribe for or purchase any evidences of its indebtedness, any shares of stock of any class or any other securities or property or assets of any nature whatsoever (in each case set forth in subparagraphs 5(h)(i), 5(h)(ii) and 5(h)(iii) hereof, the "Distributed Property"),

then, except to the extent that the holder of Series A Preferred Stock has previously received such Distributed Property pursuant to Section 1(d) hereof, upon any conversion of Series A Preferred Stock that occurs after such record date, the holder of Series A Preferred Stock shall be entitled to receive, in addition to the Conversion Shares, the Distributed Property that such holder would have been entitled to receive in respect of such number of Conversion Shares had the holder been the record holder of such Conversion Shares as of such record date. Such distribution shall be made whenever any such conversion is made. In the event that the Distributed Property consists of property other than cash, then the fair value of such Distributed Property shall be as determined in good faith by the Board and set forth in reasonable detail in a written valuation report (the "Valuation Report") prepared by the Board. The Corporation shall give written notice of such determination and a copy of the Valuation Report to all holders of Series A Preferred Stock, and if the holders of a majority of the outstanding Series A Preferred Stock object to such determination within twenty (20) business days following the date such notice is given to all of the holders of Series A Preferred Stock, the Corporation shall submit such valuation to an investment banking firm of recognized national standing selected by not less than a majority of the holders of the Series A Preferred Stock and acceptable to the Corporation in its reasonable discretion, whose opinion shall be binding upon the Corporation and the Series A Preferred Stockholders. A reclassification of the Common Stock (other than a change in par value, or from par value to no par value or from no par value to par value) into shares of Common Stock and shares of any other class of stock shall be deemed a distribution by the Corporation to the holders of its Common Stock of such shares of such other class of stock within the meaning of this Section 5(h) and, if the outstanding shares of Common Stock shall be changed into a larger or smaller number of shares of Common Stock as a part of such reclassification, such change shall be deemed a subdivision or combination, as the case may be, of the outstanding shares of Common Stock within the meaning of Section 5(g).

(i) Blocking Provision.

(i) Except as provided otherwise in this Section 5(i)(i), the number of Conversion Shares that may be acquired by any holder, and the number of shares of Series A Preferred Stock that shall be entitled to voting rights under Section 2 hereof, shall be limited to the extent necessary to insure that, following such conversion (or deemed conversion for voting purposes), the number of shares of Common Stock then

beneficially owned by such holder and its Affiliates and any other persons or entities whose beneficial ownership of Common Stock would be aggregated with the holder's for purposes of Section 13(d) of the Exchange Act (including shares held by any "group" of which the holder is a member, but excluding shares beneficially owned by virtue of the ownership of securities or rights to acquire securities that have limitations on the right to convert, exercise or purchase similar to the limitation set forth herein) does not exceed 4.99% of the total number of shares of Common Stock of the Corporation then issued and outstanding (the "Beneficial Ownership Cap"). For purposes hereof, "group" has the meaning set forth in Section 13(d) of the Exchange Act and applicable regulations of the Securities and Exchange Commission, and the percentage held by the holder shall be determined in a manner consistent with the provisions of Section 13(d) of the Exchange Act. Except as set forth in the preceding sentence, for purposes of this Section, the number of shares of Common Stock beneficially owned by the Holder and its Affiliates shall include the number of shares of Common Stock issuable upon conversion of the Preferred Stock with respect to which such determination is being made, but shall exclude the number of shares of Common Stock which would be issuable upon (A) exercise of the remaining, nonconverted portion of the Preferred Stock beneficially owned by the Holder or any of its Affiliates and (B) exercise or conversion of the unexercised or nonconverted portion of any other securities of the Company (including, without limitation, any warrants) subject to a limitation on conversion or exercise analogous to the limitation contained herein beneficially owned by the Holder or any of its affiliates. For purposes of this Section, in determining the number of outstanding shares of Common Stock, a Holder may rely on the number of outstanding shares of Common Stock as reflected in (x) the Company's most recent Form 10-QSB or Form 10-KSB, as the case may be, (y) a more recent public announcement by the Company or (z) any other notice by the Company or the Company's Transfer Agent setting forth the number of shares of Common Stock outstanding. As used herein, the term "Affiliate" means any person or entity that, directly or indirectly through one or more intermediaries, controls or is controlled by or is under common control with a person or entity, as such terms are used in and construed under Rule 144 under the Securities Act. With respect to a holder of Series A Preferred Stock, any investment fund or managed account that is managed on a discretionary basis by the same investment manager as such holder will be deemed to be an Affiliate of such holder. Each delivery of a Conversion Notice by a holder of Series A Preferred Stock will constitute a representation by such Holder that it has evaluated the limitation set forth in this paragraph and determined, subject to the accuracy of information filed under the Securities Act and the Exchange Act by the Corporation with respect to the outstanding Common Stock of the Corporation, that the issuance of the full number of shares of Common Stock requested in such Conversion Notice is permitted under this paragraph. This paragraph shall be construed and administered in such manner as shall be consistent with the intent of the first sentence of this paragraph. Any provision hereof which would require a result that is not consistent with such intent shall be deemed severed herefrom and of no force or effect with respect to the conversion contemplated by a particular Conversion Notice.

(ii) In the event the Corporation is prohibited from issuing shares of Common Stock as a result of any restrictions or prohibitions under applicable law or the rules or regulations of any stock exchange, interdealer quotation system or other

self-regulatory organization, the Corporation shall as soon as possible seek the approval of its stockholders and take such other action to authorize the issuance of the full number of shares of Common Stock issuable upon the full conversion of the then outstanding shares of Series A Preferred Stock.

(iii) Notwithstanding the foregoing provisions of Section 5(i), any holder of Series A Preferred Stock shall have the right prior to the Date of Original Issue upon written notice to the Corporation, or after the Date of Original Issue upon (x) 61 days prior written notice to the Corporation or (y) upon a Change of Control the terms of which require the conversion of the Series A Preferred Stock into Common Stock, to choose not to be governed by the Beneficial Ownership Cap provided herein.

(j) Common Stock Reserved. The Corporation shall at all times reserve and keep available out of its authorized but unissued Common Stock, solely for issuance upon the conversion of shares of Series A Preferred Stock as herein provided, such number of shares of Common Stock as shall from time to time be issuable upon the conversion of all the shares of Series A Preferred Stock at the time outstanding (without regard to any ownership limitations provided in Section 5(i)).

6. Other Provisions Applicable to Adjustments. The following provisions shall be applicable to the making of adjustments of the number of shares of Common Stock into which the Series A Preferred Stock is convertible and the current Conversion Value provided for in Section 5:

(a) When Adjustments to Be Made. The adjustments required by Section 5 shall be made whenever and as often as any specified event requiring an adjustment shall occur, except that any adjustment to the Conversion Value that would otherwise be required may be postponed (except in the case of a subdivision or combination of shares of the Common Stock, as provided for in Section 5(g)) up to, but not beyond the Conversion Date if such adjustment either by itself or with other adjustments not previously made adds or subtracts less than 1% of the shares of Common Stock into which the Series A Preferred Stock is convertible immediately prior to the making of such adjustment. Any adjustment representing a change of less than such minimum amount (except as aforesaid) which is postponed shall be carried forward and made as soon as such adjustment, together with other adjustments required by Section 5 and not previously made, would result in a minimum adjustment or on the Conversion Date. For the purpose of any adjustment, any specified event shall be deemed to have occurred at the close of business on the date of its occurrence.

(b) Fractional Interests. In computing adjustments under Section 5, fractional interests in Common Stock shall be taken into account to the nearest 1/100th of a share.

(c) When Adjustment Not Required. If the Corporation undertakes a transaction contemplated under Section 5(h) and as a result takes a record of the holders of its Common Stock for the purpose of entitling them to receive a dividend or distribution or subscription or purchase rights or other benefits contemplated under Section 5(h) and shall, thereafter and before the distribution to stockholders thereof, legally abandon its plan to pay or deliver such dividend, distribution, subscription or purchase rights or other benefits contemplated

under Section 5(h), then thereafter no adjustment shall be required by reason of the taking of such record and any such adjustment previously made in respect thereof shall be rescinded and annulled.

(d) Escrow of Stock. If after any property becomes distributable pursuant to Section 5 by reason of the taking of any record of the holders of Common Stock, but prior to the occurrence of the event for which such record is taken, a holder of the Series A Preferred Stock either converts the Series A Preferred Stock or there is a Mandatory Conversion during such period, or in either case such holder is unable to convert shares pursuant to Section 5(i), such holder of Series A Preferred Stock shall continue to be entitled to receive any shares of Common Stock issuable upon conversion under Section 5 by reason of such adjustment (as if such Series A Preferred Stock were not yet converted) and such shares or other property shall be held in escrow for the holder of the Series A Preferred Stock by the Corporation to be issued to holder of the Series A Preferred Stock upon and to the extent that the event actually takes place. Notwithstanding any other provision to the contrary herein, if the event for which such record was taken fails to occur or is rescinded, then such escrowed shares shall be canceled by the Corporation and escrowed property returned to the Corporation.

7. Merger, Consolidation or Disposition of Assets.

(a) If, after the Date of Original Issue and while any share or shares of Series A Preferred Stock are outstanding, there occurs, other than as a result of the sale of securities pursuant to the Purchase Agreement: (i) an acquisition by an individual or legal entity or group (as set forth in Section 13(d) of the Exchange Act) of more than 50% of the voting rights or equity interests in the Corporation, whether in one transaction or in a series of related transactions or (ii) a merger or consolidation of the Corporation where the holders of the Corporation's voting securities prior to such transaction fail to continue to hold at least 50% of the voting power of the Corporation or a sale, transfer or other disposition of all or substantially all the Corporation's property, assets or business to another corporation and such transaction is approved by the Board (each, a "Change of Control"), and, pursuant to the terms of such Change of Control, shares of common stock of the successor or acquiring corporation, or any cash, shares of stock or other securities or property of any nature whatsoever (including warrants or other subscription or purchase rights) in addition to or in lieu of common stock of the successor or acquiring corporation ("Other Property"), are to be received by or distributed to the holders of Common Stock of the Corporation then the successor or acquiring corporation (if other than the Corporation) shall assume the Series A Preferred Stock pursuant to Section 7(b) below.

(b) In case of any such Change of Control, the successor or acquiring corporation (if other than the Corporation) shall expressly assume the due and punctual observance and performance of each and every covenant and condition contained in this Certificate of Designation to be performed and observed by the Corporation and all the obligations and liabilities hereunder, subject to such modifications as may be deemed appropriate (as determined by resolution of the Board) in order to provide for adjustments of shares of the Common Stock into which the Series A Preferred Stock is convertible which shall be as nearly equivalent as practicable to the adjustments provided for in Section 5. For purposes of Section 5, common stock of the successor or acquiring corporation shall include stock of such corporation of any class which is not preferred as to dividends or assets on liquidation over any other class of

stock of such corporation and which is not subject to redemption and shall also include any evidences of indebtedness, shares of stock or other securities which are convertible into or exchangeable for any such stock, either immediately or upon the arrival of a specified date or the happening of a specified event and any warrants or other rights to subscribe for or purchase any such stock.

(c) The foregoing provisions of this Section 7 shall similarly apply to successive Change of Control transactions.

8. Other Action Affecting Common Stock. In case at any time or from time to time the Corporation shall take any action in respect of its Common Stock, other than the payment of dividends permitted by Section 5 or any other action described in Section 5, then, unless such action will not have a materially adverse effect upon the rights of the holder of Series A Preferred Stock, the number of shares of Common Stock or other stock into which the Series A Preferred Stock is convertible and/or the purchase price thereof shall be adjusted in such manner as may be equitable in the circumstances; provided, that the mere authorization or issuance of additional shares of capital stock of the Corporation (other than pursuant to a stock dividend) shall not be considered any action in respect of its Common Stock for purposes of this Section 8.

9. Certain Limitations. Notwithstanding anything herein to the contrary, the Corporation agrees not to enter into any transaction which, by reason of any adjustment hereunder, would cause the current Conversion Value to be less than the par value per share of Common Stock.

10. Participation Rights.

(a) Subject to the terms and conditions specified in this Section 10, at any time while Series A Preferred Stock is outstanding, the holders of shares of Series A Preferred Stock shall have a right to participate with respect to the issuance or possible issuance by the Corporation of any future equity or equity-linked securities or debt which is convertible into equity or in which there is an equity component (as the case may be, "Additional Securities") on the same terms and conditions as offered by the Corporation to the other purchasers of such Additional Securities. Each time the Corporation proposes to offer any Additional Securities, the Corporation shall make an offering of such Additional Securities to each holder of shares of Series A Preferred Stock in accordance with the following provisions:

(i) The Corporation shall deliver a notice (the "Issuance Notice") to the holders of shares of Series A Preferred Stock stating (a) its bona fide intention to offer such Additional Securities, (b) the approximate number of such Additional Securities to be offered, (c) the price (or pricing formula) and terms, if any, upon which it proposes to offer such Additional Securities, and (d) the anticipated closing date of the sale of such Additional Securities.

(ii) By written notification received by the Corporation, within five (5) days after giving of the Issuance Notice, any holder of shares of Series A Preferred Stock may elect to purchase or obtain, at the price and on the terms specified in the Issuance Notice, up to that number of such Additional Securities

which equals such holder's Pro Rata Amount (as defined below). The "Pro Rata Amount" for any given holder of shares of Series A Preferred Stock shall equal that portion of the Additional Securities that the Corporation proposes to offer which equals the proportion that the number of shares of Common Stock that such holder owns or has the right to acquire (without giving effect to the limitations contained in Section 5(i)) bears to the total number of shares of Common Stock then outstanding (assuming in each case the full conversion and exercise of all convertible and exercisable securities then outstanding).

(iii) If all Additional Securities which the holders of shares of Series A Preferred Stock are entitled to obtain pursuant to Section 10(a)(ii) are not elected to be obtained as provided in Section 10(a)(ii) hereof, the Corporation may, at its option, during the 75-day period following the expiration of the period provided in Section 10(a)(ii) hereof, offer the remaining unsubscribed portion of such Additional Securities to any person or persons at a price not less than, and upon terms no more favorable to the offeree than, those specified in the Issuance Notice. If the Corporation does not consummate the sale of such Additional Securities within such period, the right provided hereunder shall be deemed to be revived and such Additional Securities shall not be offered or sold unless first reoffered to the holders of shares of Series A Preferred Stock in accordance herewith.

(b) The rights of the holders of Series A Preferred Stock under this Section 10 shall not apply to any of the Permitted Issuances.

(c) The participation right set forth in this Section 10 may not be assigned or transferred, except in connection with a permitted assignment or transfer of the holder's shares of Series A Preferred Stock and except that such right is assignable by each holder of shares of Series A Preferred Stock to any wholly-owned subsidiary or parent of, or to any corporation or entity that is, within the meaning of the Securities Act, controlling, controlled by or under common control with, any such holder.

11. Certificate as to Adjustments. Upon the occurrence of each adjustment or readjustment of the Conversion Value, the Corporation, at its expense, shall promptly compute such adjustment or readjustment in accordance with the terms hereof and prepare and furnish to each holder of Series A Preferred Stock a certificate setting forth such adjustment or readjustment and showing in detail the facts upon which such adjustment or readjustment is based. The Corporation shall, upon the written request at any time of any holder of Series A Preferred Stock, furnish or cause to be furnished to such holder a like certificate setting forth (i) such adjustments and readjustments, (ii) the Conversion Value at the time in effect for the Series A Preferred Stock and (iii) the number of shares of Common Stock and the amount, if any, of other property which at the time would be received upon the conversion of Series A Preferred Stock owned by such holder (without regard to the ownership limitations set forth in Section 5(i)).

12. Notices of Record Date. In the event of any fixing by the Corporation of a record date for the holders of any class of securities for the purpose of determining the holders thereof

who are entitled to receive any dividend (other than a cash dividend or a dividend set forth in Section 1 hereof) or other distribution, any shares of Common Stock or other securities, or any right to subscribe for, purchase or otherwise acquire, or any option for the purchase of, any shares of stock of any class or any other securities or property, or to receive any other right, the Corporation shall mail to each holder of Series A Preferred Stock at least twenty (20) days prior to the date specified therein, a notice specifying the date on which any such record is to be taken for the purpose of such dividend, distribution or rights, and the amount and character of such dividend, distribution or right.

13. Redemption.

(a) Redemption at the Holders' Elections. If a Redemption Triggering Event (as defined below) has occurred, and a holder has so elected, the Corporation shall redeem the Series A Preferred Stock of any holder who gives a Demand for Redemption (as defined below). The Corporation shall, promptly thereafter, redeem the shares of Series A Preferred Stock as set forth in the Demand for Redemption. The Corporation shall effect such redemption on the Redemption Date by paying in cash for each such share to be redeemed an amount equal to the greater of (i) the Redemption Price (as defined below) or (ii) the total number of shares of Common Stock into which such Series A Preferred Stock is convertible multiplied by the Current Market Price at the time of the Redemption Triggering Event. "Redemption Triggering Event" means the Corporation's willful failure or refusal to convert any shares of Series A Preferred Stock in accordance with Section 5 hereof, or the Corporation's providing of written notice to such effect. "Redemption Price" means (i) all accrued but unpaid dividends as of the date of Demand for Redemption with respect to each share to be redeemed, plus (ii) 100% of the Liquidation Preference of each share to be redeemed.

(b) Demand for Redemption. A holder desiring to elect a redemption as herein provided shall deliver a notice (the "Demand for Redemption") to the Corporation while such Redemption Triggering Event continues specifying the following:

- (i) The approximate date and nature of the Redemption Triggering Event;
- (ii) The number of shares of Series A Preferred Stock to be redeemed; and
- (iii) The address to which the payment of the Redemption Price shall be delivered, or, at the election of the holder, wire instructions with respect to the account to which payment of the Redemption Price shall be required.

A holder may deliver the certificates evidencing the Series A Preferred Stock to be redeemed with the Demand for Redemption or under separate cover. Payment of the Redemption Price shall be made not later than two (2) business days after the date on which a holder has delivered a Demand for Redemption and the certificates evidencing the shares of Series A Preferred Stock to be redeemed.

(c) Status of Redeemed or Purchased Shares. Any shares of the Series A Preferred Stock at any time purchased, redeemed or otherwise acquired by the Corporation shall not be reissued and shall be retired.

(d) Status of Authorized, but Unissued Shares Preferred Stock. Shares of Series A Preferred Stock shall be issued only pursuant to the terms of the Purchase Agreement. Any attempt of the Corporation to issue shares of Series A Preferred Stock other than in accordance with the Purchase Agreement shall be null and void.

14. 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 at the facsimile number specified in this Section prior to 5:00 p.m. (Eastern Standard Time) on a business day, (b) the next business 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 business day or later than 5:00 p.m. (Eastern Standard Time) on any business day, or (c) the business day following the date of mailing, if sent by U.S. nationally recognized overnight courier service such as Federal Express. The address for such notices and communications shall be as follows: (i) if to the Corporation, to Access Pharmaceuticals, Inc., 2600 Stemmons Freeway, Suite 176, Dallas, Texas 75207, Attention: President, Facsimile No.: (214) 905-5101, or (ii) if to a holder of Series A Preferred Stock, to the address or facsimile number appearing on the Corporation's stockholder records or, in either case, to such other address or facsimile number as the Corporation or a holder of Series A Preferred Stock may provide to the other in accordance with this Section.

15. Stock Transfer Taxes. The issue of stock certificates upon conversion of the Series A Preferred Stock shall be made without charge to the converting holder for any tax in respect of such issue; provided, however, that the Corporation shall be entitled to withhold any applicable withholding taxes with respect to such issue, if any. The Corporation shall not, however, be required to pay any tax which may be payable in respect of any transfer involved in the issue and delivery of shares in any name other than that of the holder of any of the Series A Preferred Stock converted, and the Corporation shall not be required to issue or deliver any such stock certificate unless and until the person or persons requesting the issue thereof shall have paid to the Corporation the amount of such tax or shall have established to the satisfaction of the Corporation that such tax has been paid.

16. 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. In addition, for the purposes hereof, the following terms shall have the following meanings:

“Change of Control Transaction” means the occurrence after the date hereof of any of (i) an acquisition after the date hereof by an individual, legal entity or “group” (as described in Rule 13d-5(b)(1) promulgated under the Exchange Act), other than SCO Capital Partners LLC and its Affiliates, of effective control (whether through legal or beneficial ownership of capital stock of the Corporation, by contract or otherwise) of in excess of 50% of the voting securities of the Corporation (other than by means of conversion or exercise of Preferred Stock and the Securities issued together with the

Preferred Stock), or (ii) the Corporation merges into or consolidates with any other Person, or any Person merges into or consolidates with the Corporation and, after giving effect to such transaction, the stockholders of the Corporation immediately prior to such transaction own less than 66% of the aggregate voting power of the Corporation or the successor entity of such transaction, or (iii) the Corporation sells or transfers all or substantially all of its assets to another Person and the stockholders of the Corporation immediately prior to such transaction own less than 66% of the aggregate voting power of the acquiring entity immediately after the transaction, or (iv) a replacement at one time or within a one year period of more than one-half of the members of the Corporation's board of directors which is not approved by a majority of those individuals who are members of the board of directors on the date hereof (or by those individuals who are serving as members of the board of directors on any date whose nomination to the board of directors was approved by a majority of the members of the board of directors who are members on the date hereof), or (v) the execution by the Corporation of an agreement to which the Corporation is a party or by which it is bound, providing for any of the events set forth in clauses (i) through (iv) above.

“Common Stock” means the Corporation's common stock, par value \$0.01 per share, and stock of any other class of securities into which such securities may hereafter be reclassified or changed into.

“Equity Conditions” means, during the period in question, (i) the Corporation shall have duly honored all conversions scheduled to occur or occurring by virtue of one or more Conversion Notices of the applicable Holder on or prior to the dates so requested or required, if any, (ii) the Corporation shall have paid all liquidated damages and other amounts owing to the applicable Holder in respect of the Preferred Stock, (iii) there is an effective Registration Statement pursuant to which the Holders are permitted to utilize the prospectus thereunder to resell all of the shares of Common Stock issuable pursuant to the Transaction Documents (and the Corporation believes, in good faith, that such effectiveness will continue uninterrupted for the foreseeable future) or all of the shares of Common Stock issuable pursuant to the Transaction Documents may be sold without restriction pursuant to Rule 144(k), (iv) the Common Stock is trading on a Trading Market and all of the shares issuable pursuant to the Transaction Documents are listed for trading on such Trading Market (and the Corporation believes, in good faith, that trading of the Common Stock on a Trading Market will continue uninterrupted for the foreseeable future), (v) there is a sufficient number of authorized, but unissued and otherwise unreserved, shares of Common Stock for the issuance of all of the shares of Common Stock issuable pursuant to the Transaction Documents, (vi) there is no existing Triggering Event or no existing event which, with the passage of time or the giving of notice, would constitute a Triggering Event, (vii) there has been no public announcement of a pending or proposed Fundamental Transaction or Change of Control Transaction that has not been consummated, (viii) the applicable Holder is not in possession of any information that constitutes, or may constitute, material non-public information.

“Holder” means any holder of shares of Series A Preferred Stock.

“Original Issue Date” means the date of the first issuance of any shares of the Series A Preferred Stock regardless of the number of transfers of any particular shares of Series A Preferred Stock and regardless of the number of certificates which may be issued to evidence such Series A Preferred Stock.

[signature page follows]

IN WITNESS WHEREOF, the undersigned being a duly authorized officer of the Corporation, does file this Certificate of Designations, Rights and Preferences, hereby declaring and certifying that the facts stated herein are true and accordingly has hereunto set his hand this 9th day of November 2007.

ACCESS PHARMACEUTICALS, INC.

By: /s/ Stephen B. Thompson
Name: Stephen B. Thompson
Title: Vice President, Chief Financial Officer, Treasurer
and Secretary

EXHIBIT A

FORM OF CONVERSION NOTICE

(To be executed by the registered Holder in order to convert shares of Series A Preferred Stock)

The undersigned hereby irrevocably elects to convert the number of shares of Series A Cumulative Convertible Series A Preferred Stock (the "Series A Preferred Stock") indicated below into shares of common stock, par value \$0.01 per share (the "Common Stock"), of Access Pharmaceuticals, Inc., a Delaware corporation (the "Corporation"), according to the Certificate of Designations, Rights and Preferences of the Series A Preferred Stock and the conditions hereof, as of the date written below. The undersigned hereby requests that certificates for the shares of Common Stock to be issued to the undersigned pursuant to this Conversion Notice be issued in the name of, and delivered to, the undersigned or its designee as indicated below. If the shares of Common Stock are to be issued in the name of a person other than the undersigned, the undersigned will pay all transfer taxes payable with respect thereto. A copy of the certificate representing the Series A Preferred Stock being converted is attached hereto, the original of which will be delivered to the Corporation promptly following the date hereof.

Date of Conversion (Date of Notice)

Number of shares of Series A Preferred Stock owned prior to Conversion

Number of shares of Series A Preferred Stock to be Converted

Stated Value of Series A Preferred Stock to be Converted

Amount of accumulated and unpaid dividends on shares of Series A Preferred Stock to be Converted

Number of shares of Common Stock to be Issued (including conversion of accrued but unpaid dividends on shares of Series A Preferred Stock to be Converted)

Applicable Conversion Value

Number of shares of Series A Preferred Stock owned subsequent to Conversion

Conversion Information:[NAME OF HOLDER]

Address of Holder:

Issue Common Stock to (if different than above):

Name: _____

Address: _____

Tax ID #: _____

The undersigned represents, subject to the accuracy of information filed under the Securities Act and the Exchange Act by the Corporation with respect to the outstanding Common Stock of the Corporation, as of the date hereof that, after giving effect to the conversion of Preferred Shares pursuant to this Conversion Notice, the undersigned will not exceed the "Beneficial Ownership Cap" contained in Section 5(i) of the Certificate of Designation of the Series A Preferred Stock.

Name of Holder

By: _____

Name:

Title:

INVESTOR RIGHTS AGREEMENT

This Investor Rights Agreement (this "*Agreement*") is made and entered into as of November __, 2007 among Access Pharmaceuticals, Inc., a Delaware corporation (the "*Company*"), and each of the purchasers executing this Agreement and listed on Schedule 1 attached hereto (collectively, the "*Purchasers*").

This Agreement is being entered into pursuant to the Preferred Stock and Warrant Purchase Agreement, dated as of November 7, 2007, by and among the Company and the Purchasers (the "*Purchase Agreement*").

The Company and the Purchasers hereby agree as follows:

1. Definitions.

Capitalized terms used and not otherwise defined herein shall have the meanings given such terms in the Purchase Agreement. As used in this Agreement, the following terms shall have the following meanings:

"*Advice*" shall have the meaning set forth in Section 3(m).

"*Affiliate*" means, with respect to any Person, any other Person that directly or indirectly controls or is controlled by or under common control with such Person. For the purposes of this definition, "control," when used with respect to any Person, means the possession, direct or indirect, of the power to direct or cause the direction of the management and policies of such Person, whether through the ownership of voting securities, by contract or otherwise; and the terms of "affiliated," "controlling" and "controlled" have meanings correlative to the foregoing.

"*Blackout Period*" shall have the meaning set forth in Section 3(n).

"*Board*" shall have the meaning set forth in Section 3(n).

"*Business Day*" means any day except Saturday, Sunday and any day which shall be a legal holiday or a day on which banking institutions in the State of Texas generally are authorized or required by law or other government actions to close.

"*Commission*" means the Securities and Exchange Commission.

"*Common Stock*" means the Company's Common Stock, par value \$0.01 per share.

"*Conversion Shares*" means the shares of Common Stock issuable upon conversion of the Preferred Stock and Warrants purchased by the Purchasers pursuant to the Purchase Agreement, including, without limitation, shares of Common Stock issued in payment of dividends due on the Preferred Stock.

"*Effectiveness Date*" means, with respect to the Initial Registration Statement required to be filed hereunder, the 90th calendar day following the date hereof (or, in the

event of a “review” by the Commission, the 120th calendar day following the date hereof) and with respect to any additional Registration Statements which may be required pursuant to Section 3(b), the 30th calendar day following the date on which an additional Registration Statement is required to be filed hereunder; provided, however, that in the event the Company is notified by the Commission that one or more of the above Registration Statements will not be reviewed or is no longer subject to further review and comments, the Effectiveness Date as to such Registration Statement shall be no later than the fifth trading day following the date on which the Company is so notified if such date precedes the dates otherwise required above.

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

“*Event*” shall have the meaning set forth in Section 7(e).

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

“*Filing Date*” means the 30th day following the Closing Date and, with respect to any additional Registration Statements which may be required pursuant to Section 3(b), the earliest practical date on which the Company is permitted by SEC Guidance to file such additional Registration Statement related to the Registrable Securities.

“*Holder*” or “*Holder*s” means the holder or holders, as the case may be, from time to time of Registrable Securities, including without limitation the Purchasers and their assignees.

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

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

“*Initial Registration Statement*” means the initial Registration Statement which includes the Initial Shares filed pursuant to this Agreement.

“*Initial Shares*” means a number of Registrable Securities equal to the lesser of (i) the total number of Registrable Securities and (ii) one-third of the number of issued and outstanding shares of Common Stock that are held by non-affiliates of the Company on the day immediately prior to the filing date of the Initial Registration Statement.

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

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

“*Preferred Stock*” means the Company’s Series A Cumulative Convertible Preferred Stock, par value \$0.01 per share.

“*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 any 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 such Registration Statement, and all other amendments and supplements to the Prospectus, including post-effective amendments, and all material incorporated by reference in such Prospectus.

“*Purchased Shares*” means the shares of Preferred Stock purchased by the Purchasers pursuant to the Purchase Agreement.

“*Registrable Securities*” means (a) the Conversion Shares and the Warrant Shares (without regard to any limitations on beneficial ownership contained in the Preferred Stock or the Warrants) or other securities issued or issuable to each Purchaser or its transferee or designee (i) upon conversion of the Purchased Shares and/or upon exercise of the Warrants, or (ii) upon any dividend or distribution with respect to, any exchange for or any replacement of such Purchased Shares, Conversion Shares, Warrants or Warrant Shares or (iii) upon any conversion, exercise or exchange of any securities issued in connection with any such distribution, exchange or replacement; or (iv) in connection with any anti-dilution provisions in the Certificate of Designation or the Warrants without giving effect to any limitations on conversion set forth in the Certificate of Designation or limitations on exercise set forth in the Warrants; (b) securities issued or issuable upon any stock split, stock dividend, recapitalization or similar event with respect to the foregoing; and (c) any other security issued as a dividend or other distribution with respect to, in exchange for, in replacement or redemption of, or in reduction of the liquidation value of, any of the securities referred to in the preceding clauses; provided, however, that such securities shall cease to be Registrable Securities when such securities have been sold to or through a broker or dealer or underwriter in a public distribution or a public securities transaction or when such securities may be sold without any restriction pursuant to Rule 144(k) as determined by the counsel to the Company pursuant to a written opinion letter, addressed to the Company’s transfer agent to such effect as described in Section 2 of this Agreement.

“*Registration Statement*” means the registration statements and any additional registration statements contemplated by Section 2, including (in each case) the Prospectus, amendments and supplements to such registration statement or Prospectus, including pre- and post-effective amendments, all exhibits thereto, and all material incorporated by reference in such registration statement.

“*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 158*” means Rule 158 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 or interpreted from time to time, or any similar rule or regulation hereafter adopted by the Commission having substantially the same purpose and effect as such Rule.

“*SEC Guidance*” means (i) any publicly-available written or oral guidance, comments, requirements or requests of the Commission staff and (ii) the Securities Act.

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

“*Special Counsel*” means Wiggin and Dana LLP.

“*Warrants*” means the Common Stock purchase warrants issued pursuant to the Purchase Agreement, including, without limitation the Placement Agent Warrants.

“*Warrant Shares*” means the shares of Common Stock issuable upon the exercise of the Warrants (including, without limitation, the Placement Agent Warrants) issued or to be issued to the Purchasers or their assignees or designees in connection with the offering consummated under the Purchase Agreement.

2. Registration. As soon as possible following the Closing Date (but not later than the Filing Date), the Company shall prepare and file with the Commission a “shelf” Registration Statement for the resale of all or such maximum portion of the Registrable Securities as permitted by SEC Guidance (provided that the Company shall use diligent efforts to advocate with the Commission for the registration of all of the Registrable Securities in accordance with the SEC Guidance, including without limitation, the Manual of Publicly Available Telephone Interpretations D.29) that are not then registered on an effective Registration Statement for an offering to be made on a continuous basis pursuant to Rule 415. The Registration Statement shall be on Form S-3 (or if such form is not available to the Company on another form appropriate for such registration in accordance herewith). The Company shall use its best efforts to cause the Registration Statement to be declared effective under the Securities Act not later than ninety (90) days after the Filing Date (including filing with the Commission a request for acceleration of effectiveness in accordance with Rule 461 promulgated under the Securities Act within five (5) Business Days of the date that the Company is notified (orally or in writing, whichever is earlier) by the Commission that a Registration Statement will not be “reviewed,” or not be subject to further review) and to keep such Registration Statement continuously effective under the Securities Act until such date as is the earlier of (x) the date when all Registrable Securities covered by such Registration Statement have been sold or (y) with respect to such Holder,

such time as all Registrable Securities held by such Holder may be sold without any restriction pursuant to Rule 144(k) as determined by the counsel to the Company pursuant to a written opinion letter, addressed to the Company's transfer agent to such effect (the "Effectiveness Period"). The Company shall telephonically request effectiveness of a Registration Statement as of 5:00 p.m. New York City time on a Trading Day. The Company shall immediately notify the Holders via facsimile or by e-mail of the effectiveness of a Registration Statement on the same Trading Day that the Company telephonically confirms effectiveness with the Commission, which shall be the date requested for effectiveness of such Registration Statement. The Company shall, by 9:30 a.m. New York City time on the Trading Day after the effective date of such Registration Statement, file a final Prospectus with the Commission as required by Rule 424. For purposes of the obligations of the Company under this Agreement, no Registration Statement shall be considered "effective" with respect to any Registrable Securities unless such Registration Statement lists the Holders of such Registrable Securities as "Selling Stockholders" and includes such other information as is required to be disclosed with respect to such Holders to permit them to sell their Registrable Securities pursuant to such Registration Statement, unless any such Holder is not included as a "Selling Stockholder" pursuant to Section 3(m). Such Registration Statement also shall cover, to the extent allowable under the Securities Act and the Rules promulgated thereunder (including Securities Act 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. Notwithstanding the foregoing or any other provision of this Agreement, and subject to the payment of liquidated damages pursuant to Section 7(e), if any SEC Guidance sets forth a limitation on the number of Registrable Securities permitted to be registered on a particular Registration Statement (and notwithstanding that the Company used diligent efforts to advocate with the Commission for the registration of all or a greater portion of Registrable Securities), unless otherwise directed in writing by a Holder as to its Registrable Securities, the number of Registrable Securities to be registered on such Registration Statement will first be reduced by the Common Stock underlying the Placement Agent Warrants and second by Registrable Securities represented by Warrant Shares (applied, in the case that some Warrant Shares may be registered, to the Holders on a pro rata basis based on the total number of unregistered Warrant Shares held by such Holders); provided, however, that, prior to any reduction in the number of Registrable Securities included in a Registration Statement as set forth in this sentence, the number of shares of Common Stock that are not Registrable Securities and which shall have been included on such Registration Statement shall be reduced by up to 100%.

3. Registration Procedures.

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

(a) Prepare and file with the Commission on or prior to the Filing Date, a Registration Statement on Form S-3 (or if such form is not available to the Company on another form appropriate for such registration in accordance herewith) (which shall include a Plan of Distribution substantially in the form of Exhibit A attached hereto), and cause the Registration Statement to become effective and remain effective as provided herein;

provided, however, that not less than three (3) Business Days prior to the filing of the Registration Statement or any related Prospectus or any amendment or supplement thereto, the Company shall (i) furnish to the each Holder and the Special Counsel, copies of all such documents proposed to be filed, which documents (other than those incorporated by reference) will be subject to the review of such Special Counsel, and (ii) at the request of any Holder 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 counsel to such Holders, to conduct a reasonable investigation within the meaning of the Securities Act. The Company shall not file the Registration Statement or any such Prospectus or any amendments or supplements thereto to which the Holders of a majority of the Registrable Securities or the Special Counsel shall reasonably object within three (3) Business Days after their receipt thereof. In the event of any such objection, the Holders shall provide the Company with any requested revisions to such prospectus or supplement within two (2) Business Days after such objection.

(b) (i) Prepare and file with the Commission such amendments, including post-effective amendments, to the Registration Statement as may be necessary to keep the Registration Statement continuously effective as to the applicable Registrable Securities for the Effectiveness Period and to the extent any Registrable Securities are not included in such Registration Statement for reasons other than the failure of the Holder to comply with Section 3(m) hereof, shall prepare and file with the Commission such amendments to the Registration Statement or such additional Registration Statements as are appropriate in order to register for resale under the Securities Act all Registrable Securities; (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 (or any similar provisions then in force) promulgated under the Securities Act; (iii) respond as promptly as reasonably practicable, and in no event later than ten (10) Business Days to any comments received from the Commission with respect to the Registration Statement or any amendment thereto and as promptly as reasonably practicable provide the Holders true and complete copies of all correspondence from and to the Commission relating to the Registration Statement, but not, without the prior written consent of the Holders, any comments that would result in the disclosure to the Holders of material and non-public information concerning the Company; and (iv) comply in all material respects with the provisions of the Securities Act and the Exchange Act with respect to the disposition of all Registrable Securities covered by the Registration Statement during the applicable period in accordance with the intended methods of disposition by the Holders thereof set forth in the Registration Statement as so amended or in such Prospectus as so supplemented. Subject to the payment of any liquidated damages that may be payable pursuant to Section 7(e), the Company shall not be deemed to be in breach of this Section 3(b) if it fails to register any Registrable Securities or file a Registration Statement, in either case, in order to comply with any SEC Guidance; provided that the Company uses diligent efforts to advocate with the Commission for the registration of all or a greater portion of Registrable Securities.

(c) Notify Holders of Registrable Securities to be sold and the Special Counsel as promptly as reasonably practicable (A) when a Prospectus or any Prospectus supplement or post-effective amendment to the Registration Statement is proposed to be filed (but in no event in the case of this subparagraph (A), less than three (3) Business Days prior to date of

such filing); (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 such Registration Statement; and (C) with respect to the Registration Statement or any post-effective amendment, when the same has become effective, and after the effectiveness thereof: (i) of any request by the Commission or any other Federal or state governmental authority for amendments or supplements to the Registration Statement or Prospectus or for additional information; (ii) of the issuance by the Commission of any stop order suspending the effectiveness of the Registration Statement covering any or all of the Registrable Securities or the initiation of any Proceedings for that purpose; (iii) 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; and (iv) if the financial statements included in the Registration Statement become ineligible for inclusion therein or of the occurrence of any event that makes any statement made in the 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 the Registration Statement, Prospectus or other documents so that, in the case of the 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 light of the circumstances under which they were made, not misleading. Without limitation to any remedies to which the Holders may be entitled under this Agreement, if any of the events described in Section 3(c)(C)(i), 3(c)(C)(ii), 3(c)(C)(iii) or 3(c)(C)(iv) occur, the Company shall use its best efforts to respond to and correct the event.

(d) Use its best efforts to avoid the issuance of, or, if issued, use best efforts to obtain the withdrawal of, (i) any order suspending the effectiveness of the Registration Statement or (ii) any suspension of the qualification (or exemption from qualification) of any of the Registrable Securities for sale in any jurisdiction, at the earliest practicable time.

(e) If requested by any Holder of Registrable Securities, (i) promptly incorporate in a Prospectus supplement or post-effective amendment to the Registration Statement such information as the Company reasonably agrees should be included therein and (ii) make all required filings of such Prospectus supplement or such post-effective amendment as soon as reasonably practicable after the Company has received notification of the matters to be incorporated in such Prospectus supplement or post-effective amendment.

(f) Furnish to each Holder and the Special Counsel, without charge, at least one conformed copy of each Registration Statement and each amendment thereto, including financial statements and schedules, 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.

(g) Promptly deliver to each Holder and the Special Counsel, without charge, as many copies of the Prospectus or Prospectuses (including each form of prospectus) and each amendment or supplement thereto as such Persons may reasonably request; and the Company hereby consents to the use of such Prospectus and each amendment or supplement

thereto by each of the selling Holders in connection with the offering and sale of the Registrable Securities covered by such Prospectus and any amendment or supplement thereto.

(h) Prior to any public offering of Registrable Securities, use its best efforts to register or qualify or cooperate with the selling Holders and the Special Counsel in connection with the registration or qualification (or exemption from such registration or qualification) 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 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 necessary or advisable to enable the disposition in such jurisdictions of the Registrable Securities covered by a Registration Statement; provided, however, 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 it 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.

(i) Cooperate with the Holders to facilitate the timely preparation and delivery of certificates representing Registrable Securities to be sold pursuant to a Registration Statement, which certificates shall be free, to the extent permitted by applicable law and the Purchase Agreement, of all restrictive legends, and to enable such Registrable Securities to be in such denominations and registered in such names as any Holder may request at least two (2) Business Days prior to any sale of Registrable Securities. In connection therewith, the Company shall promptly after the effectiveness of the Registration Statement cause an opinion of counsel 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.

(j) Following the occurrence of any event contemplated by Section 3(c)(C)(iv), as promptly as possible, prepare a supplement or amendment, including a post-effective amendment, to the Registration Statement 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, neither the Registration Statement nor such Prospectus 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 light of the circumstances under which they were made, not misleading.

(k) Cause all Registrable Securities relating to such Registration Statement to be listed on any United States securities exchange, quotation system, market or over-the-counter bulletin board on which similar securities issued by the Company are then listed.

(l) Comply in all material respects with all applicable rules and regulations of the Commission and make generally available to its security holders earnings statements satisfying the provisions of Section 11(a) of the Securities Act and Rule 158 not later than 45

days after the end of any 3-month period (or 90 days after the end of any 12-month period if such period is a fiscal year) commencing on the first day of the first fiscal quarter of the Company after the effective date of the Registration Statement, which statement shall conform to the requirements of Rule 158.

(m) 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, if required by the Commission, the natural persons thereof that have voting and dispositive control over the shares. During any periods that the Company is unable to meet its obligations hereunder with respect to the registration of the Registrable Securities solely because any Holder fails to furnish such information within three Trading Days of the Company's request, any liquidated damages that are accruing at such time as to such Holder only shall be tolled, and the Company may exclude from such registration the Registrable Securities of any such Holder who fails to furnish such information within a reasonable time prior to the filing of each Registration Statement, supplemented Prospectus and/or amended Registration Statement, until such information is delivered to the Company. Each Holder agrees to furnish to the Company a completed questionnaire in the form attached to this Agreement as Annex B (a "Selling Shareholder Questionnaire") not less than two (2) Trading Days prior to the Filing Date or by the end of the fourth (4th) Trading Day following the date on which such Holder receives draft materials in accordance with this Section.

If the Registration Statement refers to any Holder by name or otherwise as the holder of any securities of the Company, then such Holder shall have the right to require (if such reference to such Holder by name or otherwise is not required by the Securities Act or any similar federal statute then in force) the deletion of the reference to such Holder in any amendment or supplement to the Registration Statement filed or prepared subsequent to the time that such reference ceases to be required.

Each Holder 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)(C)(i), 3(c)(C)(ii), 3(c)(C)(iii), 3(c)(C)(iv), or 3(n), such Holder will forthwith discontinue disposition of such Registrable Securities under the Registration Statement until such Holder's receipt of the copies of the supplemented Prospectus and/or amended Registration Statement contemplated by Section 3(j), or 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; provided, that, notwithstanding the foregoing provisions of this Section 3(m), the Holders shall not be prohibited from selling Registrable Securities under the Registration Statement as a result of any event of the kind described in this Section 3(m) for more than an aggregate of 60 days in any 12-month period.

(n) If (i) there is material non-public information regarding the Company which the Company's Board of Directors (the "*Board*") reasonably determines not to be in the Company's best interest to disclose and which the Company is not otherwise required to disclose, or (ii) there is a significant business opportunity (including, but not limited to, the acquisition or disposition of assets (other than in the ordinary course of business) or any

merger, consolidation, tender offer or other similar transaction) available to the Company which the Board reasonably determines not to be in the Company's best interest to disclose and which the Company would be required to disclose under the Registration Statement, then the Company may (i) postpone or suspend filing or effectiveness of a registration statement or (ii) notify the Holders that the Registration Statement may not be used in connection with any sales of the Company's securities, in each case, for a period not to exceed 30 consecutive days, provided that the Company may not postpone or suspend its obligation under this Section 3(n) for more than 60 days in the aggregate during any 12 month period (each, a "Blackout Period").

4. Registration Expenses.

All fees and expenses incident to the performance of or compliance with this Agreement by the Company shall be borne by the Company whether or not the Registration Statement is filed or becomes effective and whether or not any Registrable Securities are sold pursuant to the 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 each securities exchange, quotation system, market or over-the-counter bulletin board on which Registrable Securities are required hereunder to be listed, (B) with respect to filings required to be made with the Commission, and (C) in compliance with state securities or Blue Sky laws (including, without limitation, reasonable and documented fees and disbursements of Special Counsel in connection with Blue Sky qualifications of the Registrable Securities and determination of the eligibility of the Registrable Securities for investment under the laws of such jurisdictions as the Holders of a majority of Registrable Securities may designate), (ii) printing expenses (including, without limitation, expenses of printing certificates for Registrable Securities and of printing or photocopying prospectuses), (iii) messenger, telephone and delivery expenses, (iv) Securities Act liability insurance, if the Company so desires such insurance, (v) fees and expenses of all other Persons retained by the Company in connection with the consummation of the transactions contemplated by this Agreement, including, without limitation, the Company's independent public accountants (including, in the case of an underwritten offering, the expenses of any comfort letters or costs associated with the delivery by independent public accountants of a comfort letter or comfort letters) and legal counsel, and (vi) reasonable and documented fees and expenses of the Special Counsel in connection with any Registration Statement hereunder. 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, the fees and expenses incurred in connection with the listing of the Registrable Securities on any securities exchange as required hereunder.

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, brokers (including brokers who offer and sell Registrable Securities as

principal as a result of a pledge or any failure to perform under a margin call of Common Stock), investment advisors 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, 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, costs of preparation and reasonable attorneys' fees) and expenses (collectively, "Losses"), as incurred, arising out of or relating to any untrue or alleged untrue statement of a material fact contained or incorporated by reference in the Registration Statement, any Prospectus or any form of prospectus or in any amendment or supplement thereto or in any preliminary prospectus, or arising out of or relating to 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 form of prospectus or amendment or supplement thereto, in the light of the circumstances under which they were made) not misleading, except to the extent, but only to the extent, that (i) such untrue statements or omissions are based solely upon information regarding such Holder furnished in writing to the Company by such Holder expressly for use therein, which information was reasonably relied on by the Company for use therein or to the extent that such information relates to (x) such Holder and was reviewed and expressly approved in writing by such Holder expressly for use in the Registration Statement, such Prospectus or such form of prospectus or in any amendment or supplement thereto or (y) such Holder's proposed method of distribution of Registrable Securities as set forth in Exhibit A (or as such Holder otherwise informs the Company in writing); or (ii) in the case of an occurrence of an event of the type described in Section 3(c)(C)(ii), 3(c)(C)(iii), 3(c)(C)(iv) or 3(n), the use by a Holder of an outdated or defective Prospectus after the delivery to the Holder of written notice from the Company that the Prospectus is outdated or defective and prior to the receipt by such Holder of the Advice contemplated in Section 3(m); 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. The Company shall notify the Holders promptly of the institution, threat or assertion of any Proceeding of which the Company 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) to this Agreement) and shall survive the transfer of the Registrable Securities by the Holders.

(b) Indemnification by Holders. Each Holder shall, 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 and employees of such controlling Persons, to the fullest extent permitted by applicable law, from and against all Losses, as incurred, arising solely out of or based solely upon any untrue statement of a material fact contained in the 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 of 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 the light of the circumstances under which they were made) not misleading, to the extent, but only to the extent, that (i) such untrue statement or omission is

contained in or omitted from any information so furnished in writing by such Holder to the Company specifically for inclusion in the Registration Statement or such Prospectus and that such information was reasonably relied upon by the Company for use in the Registration Statement, such Prospectus, or in any amendment or supplement thereto, or to the extent that such information relates to (x) such Holder and was reviewed and expressly approved in writing by such Holder expressly for use in the Registration Statement, such Prospectus, or such form of prospectus or in any amendment or supplement thereto or (y) such Holder's proposed method of distribution of Registrable Securities as set forth in Exhibit A (or as such Holder otherwise informs the Company in writing), (ii) in the case of an occurrence of an event of the type described in Section 3(c)(C)(ii), 3(c)(C)(iii), 3(c)(C)(iv) or 3(n), the use by a Holder of an outdated or defective Prospectus after the delivery to the Holder of written notice from the Company that the Prospectus is outdated or defective and prior to the receipt by such Holder of the Advice contemplated in Section 3(m) or (iii) such Holder's failure to comply with the Prospectus delivery requirements of the Securities Act through no fault of the Company; 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. Notwithstanding anything to the contrary contained herein, the Holder shall be liable under this Section 5(b) for only that amount as does not exceed the net proceeds to such Holder as a result of the sale of Registrable Securities pursuant to such Registration Statement.

(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 promptly shall 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; or (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 in writing 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 reasonable expense of the Indemnifying Party). 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. 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 and does not impose any monetary or other obligation or restriction on the Indemnified Party.

All reasonable 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 ten (10) Business Days of written notice thereof to the Indemnifying Party, which notice shall be delivered no more frequently than on a monthly basis (regardless of whether it is ultimately determined that an Indemnified Party is not entitled to indemnification hereunder; provided, that the Indemnifying Party may require such Indemnified Party to undertake to reimburse all such fees and expenses to the extent it is finally judicially determined that such Indemnified Party is not entitled to indemnification hereunder).

(d) Contribution. If a claim for indemnification under Section 5(a) or 5(b) is unavailable to an Indemnified Party because of a failure or refusal of a governmental authority to enforce such indemnification in accordance with its terms (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. Notwithstanding anything to the contrary contained herein, the Holder shall be required to contribute under this Section 5(d) for only that amount as does not exceed the net proceeds to such Holder as a result of the sale of Registrable Securities pursuant to such Registration Statement.

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. 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. The indemnity and contribution agreements herein are in addition to and not in diminution or limitation of any indemnification provisions under the Purchase Agreement.

6. Rule 144.

As long as any Holder owns Purchased Shares, Conversion Shares, Warrants or Warrant Shares, the Company covenants 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. As long as any Holder owns Purchased Shares, Conversion Shares, Warrants or Warrant Shares, 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 Purchased Shares, Conversion Shares, Warrants 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 Purchased Shares, Conversion Shares, Warrants and Warrant Shares. Upon the request of any Holder, the Company shall deliver to such Holder a written certification of a duly authorized officer as to whether it has complied with such requirements.

7. 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) No Inconsistent Agreements. Except as otherwise disclosed in the Purchase Agreement, neither the Company nor any of its subsidiaries is a party to an agreement

currently in effect, nor shall the Company or any of its subsidiaries, on or after the date of this Agreement, enter into any agreement with respect to its securities that is inconsistent with the rights granted to the Holders in this Agreement or otherwise conflicts with the provisions hereof. Without limiting the generality of the foregoing, other than with respect to the rights of the holders of the Company's currently outstanding warrants and convertible notes and the common stock underlying such warrants and convertible notes, without the written consent of the Holders of a majority of the then outstanding Registrable Securities, the Company shall not grant to any Person the right to request the Company to register any securities of the Company under the Securities Act unless the rights so granted are subject in all respects to the rights of the Holders set forth herein, and are not otherwise in conflict with the provisions of this Agreement.

(c) Notice of Effectiveness. Within two (2) Business Days after the Registration Statement which includes the Registrable Securities is ordered effective by the Commission, the Company shall deliver, and shall cause legal counsel for the Company to deliver, to the transfer agent for such Registrable Securities (with copies to the Holders whose Registrable Securities are included in such Registration Statement) confirmation that the Registration Statement has been declared effective by the Commission in the form attached hereto as Exhibit B.

(d) Piggy-Back Registrations. If at any time when there is not an effective Registration Statement covering all of the Registrable Securities, the Company shall determine to prepare and file with the Commission a registration statement relating to an offering for its own account or the account of others under the Securities Act of any of its equity securities, other than on Form S-4 or Form S-8 (each as promulgated under the Securities Act) or their then equivalents relating to equity securities to be issued solely in connection with any acquisition of any entity or business or equity securities issuable in connection with stock option or other employee benefit plans and other than with respect to the rights of the holders of the Company's currently outstanding warrants and convertible notes and the common stock underlying such warrants and convertible notes, the Company shall send to each Holder of Registrable Securities written notice of such determination and, if within seven (7) Business Days after receipt of such notice, any such Holder shall so request in writing (which request shall specify the Registrable Securities intended to be disposed of by the Holder), the Company will cause the registration under the Securities Act of all Registrable Securities which the Company has been so requested to register by the Holder, to the extent required to permit the disposition of the Registrable Securities so to be registered, provided that if at any time after giving written notice of its intention to register any securities and prior to the effective date of the registration statement filed in connection with such registration, the Company shall determine for any reason not to register or to delay registration of such securities, the Company may, at its election, give written notice of such determination to such Holder and, thereupon, (i) in the case of a determination not to register, shall be relieved of its obligation to register any Registrable Securities in connection with such registration (but not from its obligation to pay expenses in accordance with Section 4 hereof), and (ii) in the case of a determination to delay registering, shall be permitted to delay registering any Registrable Securities being registered pursuant to this Section 7(d) for the same period as the delay in registering such other securities. The Company shall include in such registration statement all or any part of such Registrable

Securities such Holder requests to be registered. In the case of an underwritten public offering, if the managing underwriter(s) or underwriter(s) should reasonably object to the inclusion of the Registrable Securities in such registration statement, then if the Company after consultation with the managing underwriter should reasonably determine that the inclusion of such Registrable Securities, would materially adversely affect the offering contemplated in such registration statement, and based on such determination recommends inclusion in such registration statement of fewer or none of the Registrable Securities of the Holders, then (x) the number of Registrable Securities of the Holders included in such registration statement shall be reduced pro-rata among such Holders (based upon the number of Registrable Securities requested to be included in the registration), if the Company after consultation with the underwriter(s) recommends the inclusion of fewer Registrable Securities, or (y) none of the Registrable Securities of the Holders shall be included in such registration statement, if the Company after consultation with the underwriter(s) recommends the inclusion of none of such Registrable Securities; provided, however, that if securities are being offered for the account of other persons or entities as well as the Company, such reduction shall not represent a greater fraction of the number of Registrable Securities intended to be offered by the Holders than the fraction of similar reductions imposed on such other persons or entities (other than the Company).

(e) Failure to File Registration Statement; Failure to Become Effective and Other Events. The Company and the Holders agree that the Holders will suffer damages if the Registration Statement is not filed on or prior to the Filing Date and maintained in the manner contemplated herein during the Effectiveness Period. The Company and the Holders further agree that it would not be feasible to ascertain the extent of such damages with precision. Accordingly, if (i) the Registration Statement is not filed on or prior to the Filing Date, or (ii) the Company fails to file with the Commission a request for acceleration in accordance with Rule 461 promulgated under the Securities Act within five (5) Business Days of the date that the Company is notified (orally or in writing, whichever is earlier) by the Commission that a Registration Statement will not be “reviewed,” or not subject to further review, or (iii) a Registration Statement registering for resale all of the Initial Shares is not declared effective by the Commission by the Effectiveness Date of the Initial Registration Statement with the aggregate number of such Initial Shares divided among all Holders on a pro-rata basis based on their purchase of the Securities pursuant to the Purchase Agreement, or (iv) all of the Registrable Securities are not registered for resale pursuant to one or more effective Registration Statements on or before October 30, 2008, or (v) the Registration Statement is filed with and declared effective by the Commission but thereafter ceases to be effective as to all applicable Registrable Securities at any time prior to the expiration of the Effectiveness Period, without being succeeded immediately by a subsequent Registration Statement filed with the Commission, except as otherwise permitted by this Agreement, including pursuant to Section 3(n), or (vi) trading in the Common Stock shall be suspended or if the Common Stock is delisted from each securities exchange, quotation system, market or over-the-counter bulletin board on which Registrable Securities are required hereunder to be listed (each an “Exchange”), without immediately being listed on any other Exchange, for any reason for more than five (5) Business Days, other than pursuant to Section 3(n), or (vii) the Company refuses or fails to effect any exercise of Warrants into Warrant Shares in accordance with the terms of the Warrants for any reason without the consent of the particular Holder (any such failure or breach being referred to as

an “*Event*”), the Company shall, as the remedy for same, pay in cash as liquidated damages for such failure and not as a penalty to each Holder an amount equal to one percent (1%) of such Holder’s Subscription Amount for the initial thirty (30) day period until the applicable Event has been cured, which shall be pro rated for such periods less than thirty (30) days and one percent (1%) of such Holder’s Subscription Amount for each subsequent thirty (30) day period until the applicable Event has been cured which shall be pro rated for such periods less than thirty days (the “*Periodic Amount*”). Payments to be made pursuant to this Section 7(e) shall be due and payable immediately upon demand in immediately available cash funds. The parties agree that the Periodic Amount represents a reasonable estimate on the part of the parties, as of the date of this Agreement, of the amount of damages that may be incurred by the Holders if the Registration Statement is not filed on or prior to the Filing Date and maintained in the manner contemplated herein during the Effectiveness Period or if any other Event as described herein has occurred. The parties further agree that the maximum aggregate liquidated damages payable to a Holder under this Section 7(e) shall be 10% of the aggregate Subscription Amount paid by such Holder pursuant to the Purchase Agreement. Notwithstanding the foregoing, the Company shall remain obligated to cure the breach or correct the condition that caused the Event, and the Holder shall have the right to take any action necessary or desirable to enforce such obligation. Each Holder of Registrable Securities acknowledges that, notwithstanding any provision of this Agreement, no damages shall be payable in connection with the Company’s imposition of a Blackout Period in accordance with Section 3(n) of this Agreement.

(f) Specific Enforcement, Consent to Jurisdiction.

(i) The Company and the Holders acknowledge and agree that irreparable damage would occur in the event that any of the provisions of this Agreement were not performed in accordance with their specific terms or were otherwise breached. It is accordingly agreed that the parties shall be entitled to an injunction or injunctions to prevent or cure breaches of the provisions of this Agreement and to enforce specifically the terms and provisions hereof, this being in addition to any other remedy to which any of them may be entitled by law or equity.

(ii) Each of the Company and the Holders (i) hereby irrevocably submits to the exclusive jurisdiction of the state and federal courts located in New York City, New York for the purposes of any suit, action or proceeding arising out of or relating to this Agreement and (ii) hereby waives, and agrees not to assert in any such suit, action or proceeding, any claim that it is not personally subject to the jurisdiction of such court, that the suit, action or proceeding is brought in an inconvenient forum or that the venue of the suit, action or proceeding is improper. Each of the Company and the Holders consents to process being served in any such suit, action or proceeding by mailing a copy thereof 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 in this Section 7(f) shall affect or limit any right to serve process in any other manner permitted by law.

(g) Amendments and Waivers. The provisions of this Agreement, including the provisions of this sentence, may not be amended, modified or supplemented, and waivers or

consents to departures from the provisions hereof may not be given, unless the same shall be in writing and signed by the Company and the Holders of at least 66% or more of the Registrable Securities (including, for this purpose, any Registrable Securities issuable upon conversion or exercise (as applicable) of any Preferred Stock or Warrant). If a Registration Statement does not register all of the Registrable Securities pursuant to a waiver or amendment done in compliance with the previous sentence, then the number of Registrable Securities to be registered for each Holder shall be reduced pro rata among all Holders and each Holder shall have the right to designate which of its Registrable Securities shall be omitted from such Registration Statement. Notwithstanding the foregoing, a waiver or consent to depart from the provisions hereof with respect to a matter that relates exclusively to the rights of Holders and that does not directly or indirectly affect the rights of other Holders may be given by Holders of the Registrable Securities to which such waiver or consent relates; provided, however, that the provisions of this sentence may not be amended, modified, or supplemented except in accordance with the provisions of the immediately preceding sentence.

(h) 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 earlier of (i) the date of transmission, if such notice or communication is delivered via facsimile at the facsimile telephone number specified for notice prior to 5:00 p.m., New York City time, on a Business Day, (ii) the next Business 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 Business Day or later than 5:00 p.m., New York City time, on any date and earlier than 11:59 p.m., New York City time, on such date, (iii) the Business Day following the date of mailing, if sent by nationally recognized overnight courier service such as Federal Express or (iv) actual receipt by the party to whom such notice is required to be given. The addresses for such communications shall be with respect to each Holder at its address set forth under its name on Schedule 1 attached hereto, or with respect to the Company, addressed to:

Access Pharmaceuticals, Inc.
2600 Stemmons Freeway, Suite 176
Dallas, Texas 75207
Attention: President
Facsimile No.: (214) 905-5101

or to such other address or addresses or facsimile number or numbers as any such party may most recently have designated in writing to the other parties hereto by such notice. Copies of notices to the Company shall be sent to:

Bingham McCutchen LLP
150 Federal Street
Boston, Massachusetts 02110
Attention: John J. Concannon, III
Facsimile No.: (617) 951-8736

Copies of notices to any Holder shall be sent to the addresses, if any, listed on Schedule 1 attached hereto.

(i) Successors and Assigns. This Agreement shall be binding upon and inure to the benefit of the parties and their successors and permitted assigns and shall inure to the benefit of each Holder and its successors and assigns; provided, that the Company may not assign this Agreement or any of its rights or obligations hereunder without the prior written consent of each Holder; and provided, further, that each Holder may assign its rights hereunder in the manner and to the Persons as permitted under the Purchase Agreement.

(j) Assignment of Registration Rights. The rights of each Holder hereunder, including the right to have the Company register for resale Registrable Securities in accordance with the terms of this Agreement, shall be automatically assignable by each Holder to any transferee of such Holder of all or a portion of the Purchased Shares, the Warrants, the Warrant Shares or the Registrable Securities 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 (a) the name and address of such transferee or assignee, and (b) the securities with respect to which such registration rights are being transferred or assigned, (iii) following such transfer or assignment the further disposition of such securities by the transferee or assignees is restricted under the Securities Act and applicable state securities laws, (iv) at or before the time the Company receives the written notice contemplated by clause (ii) of this Section 7(j), the transferee or assignee agrees in writing with the Company to be bound by all of the provisions of this Agreement, and (v) such transfer shall have been made in accordance with the applicable requirements of the Purchase Agreement. The rights to assignment shall apply to the Holders (and to subsequent) successors and assigns.

The Company may require, as a condition of allowing such assignment in connection with a transfer of Purchased Shares, Warrants, Warrant Shares or Registrable Securities (i) that the Holder or transferee of all or a portion of the Purchased Shares, the Warrants, the Warrant Shares or the Registrable Securities as the case may be, furnish to the Company a written opinion of counsel that is reasonably acceptable to the Company to the effect that such transfer may be made without registration under the Securities Act, (ii) that the Holder or transferee execute and deliver to the Company an investment letter in form and substance acceptable to the Company and (iii) that the transferee be an “accredited investor” as defined in Rule 501(a) promulgated under the Securities Act.

(k) Counterparts; Facsimile. 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 electronic means or facsimile transmission, 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.

(l) Governing Law. This Agreement shall be governed by and construed in accordance with the laws of the State of New York, without regard to principles of conflicts of law thereof.

(m) Cumulative Remedies. Unless otherwise provided herein, the remedies provided herein are cumulative and not exclusive of any remedies provided by law.

(n) 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 in any respect, 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.

(o) Headings. 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.

(p) Obligations of Purchasers. The Company acknowledges that the obligations of each Purchaser under this Agreement, 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 this Agreement. The decision of each Purchaser to enter into this Agreement has been made by such Purchaser independently of any other Purchaser. The Company further acknowledges that nothing contained in this Agreement, and no action taken by any Purchaser pursuant hereto, 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 hereby. Each Purchaser shall be entitled to independently 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.

Each Purchaser has been represented by its own separate legal counsel in their review and negotiation of this Agreement and with respect to the transactions contemplated hereby. For reasons of administrative convenience only, this Agreement has been prepared by Special Counsel (counsel for SCO Capital Partners LLC) and the Special Counsel will perform certain duties under this Agreement. Such counsel does not represent all of the Purchasers but only SCO Capital Partners LLC. The Company has elected to provide all Purchasers with the same terms and Agreement for the convenience of the Company and not because it was required or requested to do so by the Purchasers. The Company acknowledges that such procedure with respect to this Agreement in no way creates a presumption that the Purchasers are in any way acting in concert or as a group with respect to this Agreement or the transactions contemplated hereby or thereby.

(q) No Other Shares on Registrations; Prohibition on Filing Other Registration Statements. Neither the Company nor any of its security holders (other than the Holders in such capacity pursuant hereto) may include securities of the Company in any Registration Statements other than the Registrable Securities. The Company shall not file any other registration statements until all Registrable Securities are registered pursuant to a Registration Statement that is declared effective by the Commission, provided that this Section 7(q) shall not prohibit the Company from filing amendments to registration statements filed prior to the date of this Agreement.

[signature page follows]

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

COMPANY:

ACCESS PHARMACEUTICALS, INC.

By: _____
Name:
Title:

PURCHASERS:

Print Exact Name: _____

By: _____

Name:

Title:

[Omnibus Access Pharmaceuticals, Inc. Investor Rights Agreement (2007) Signature Page]

SCHEDULE 1

PURCHASERS

Name and Address:

Beach Capital LLC
1285 Avenue of the Americas, 35th Fl.
New York, NY 10019
Fax: 212-554-4058

Brio Capital L.P.
401 E. 34th St.
Suite South 33C
New York, NY 10016
Fax: 646-390-2158

Catalytix LDC Life Science Hedge AC
CIBC Bank and Trust Company (Cayman) Ltd.
CIBC Financial Centre
11 Roy's Drive
P.O. Box 694 GT
Grand Cayman
Cayman Islands
B.W.I.
Attn: Martin Laidlaw

With a copy to:

Theodore E. Kalem
Array Capital Management LLC
425 5th Ave, Ste. 28D
New York, NY 10016

Cobblestone Asset Management LLC
11 Lakeview Ave.
Sleepy Hollow, NY 10591
Fax: 212-259-2093

Cranshire Capital, L.P.
3100 Dundee Rd., #703
Northbrook, IL 60062
Fax: 847-562-9031

Name and Address:

Credit Suisse Securities (USA) LLC
c/o Greg Grimaldi
11 Madison Ave., 3d Fl.
New York, NY 10010
Fax: 212-935-7716

Enable Growth Partners LP
One Ferry Building, Suite 255
San Francisco, CA 94111
Fax: 415-677-1580

Lake End Capital LLC
33 Tall Oaks Dr.
Summit, NJ 07901
Fax:

Dennis Lavallo
1201 Yale Place #1409
Minneapolis, MN 55403
Fax: 612-455-5600

Midsummer Investment, Ltd.
295 Madison Ave., 38th Fl.
New York, NY 10017
Fax: 212-624-5040

Oracle Institutional Partners LP
Oracle Partners, LP
200 Greenwich Ave.
Greenwich, CT 06830
Fax:

Oracle Offshore Ltd.
Oracle Partners, LP
200 Greenwich Ave.
Greenwich, CT 06830
Fax:

Name and Address:

Oracle Partners, LP
200 Greenwich Ave.
Greenwich, CT 06830
Fax:

Perceptive Life Sciences Master Fund Ltd.
499 Park Ave., 25th Fl.
New York, NY 10022
Fax: 646-205-5301

Rockmore Investment Master Fund Ltd.
c/o Rockmore Capital LLC 150 E. 58th St.
New York, NY 10155
Fax: 212-258-2315

SAM Oracle Investments, Inc.
Oracle Partners, LP
200 Greenwich Ave.
Greenwich, CT 06830
Fax:

SCO Capital Partners LLC
1285 Avenue of the Americas
35th Fl.
New York, NY 10019
Fax: 212-554-4058

With a copy to:
Michael Grundei, Esq.
400 Atlantic St.
P.O. Box 110325
Stamford, CT 06911-0325

SCO Capital Partners, L.P.
1285 Avenue of the Americas
35th Fl.
New York, NY 10019
Fax: 212-554-4058

Name and Address:

With a copy to:

Michael Grundei, Esq.
400 Atlantic St.
P.O. Box 110325
Stamford, CT 06911-0325

EXHIBIT A

PLAN OF DISTRIBUTION

We are registering the shares of common stock on behalf of the selling security holders. Sales of shares may be made by selling security holders, including their respective donees, transferees, pledgees or other successors-in-interest directly to purchasers or to or through underwriters, broker-dealers or through agents. Sales may be made from time to time on the _____, any other exchange or market upon which our shares may trade in the future, in the over-the-counter market or otherwise, at market prices prevailing at the time of sale, at prices related to market prices, or at negotiated or fixed prices. The shares may be sold by one or more of, or a combination of, the following:

- a block trade in which the broker-dealer so engaged will attempt to sell the shares as agent but may position and resell a portion of the block as principal to facilitate the transaction (including crosses in which the same broker acts as agent for both sides of the transaction);
- purchases by a broker-dealer as principal and resale by such broker-dealer, including resales for its account, pursuant to this prospectus;
- ordinary brokerage transactions and transactions in which the broker solicits purchases;
- through options, swaps or derivatives;
- in privately negotiated transactions;
- in making short sales or in transactions to cover short sales;
- put or call option transactions relating to the shares;
- through the writing or settlement of options or other hedging transactions, whether through an options exchange or otherwise;
- a combination of any such methods of sale; or
- any other method permitted pursuant to applicable law.

The selling security holders may effect these transactions by selling shares directly to purchasers or to or through broker-dealers, which may act as agents or principals. These broker-dealers may receive compensation in the form of discounts, concessions or commissions from the selling security holders and/or the purchasers of shares for whom such broker-dealers may act as agents or to whom they sell as principals, or both (which compensation as to a particular broker-dealer might be in excess of customary commissions). The selling security holders have advised us that they have not entered into any agreements, understandings or arrangements with any underwriters or broker-dealers regarding the sale of their securities.

The selling security holders may enter into hedging transactions with broker-dealers or other financial institutions. In connection with those transactions, the broker-dealers or other financial institutions may engage in short sales of the shares or of securities convertible into or exchangeable for the shares in the course of hedging positions they assume with the selling security holders. The selling security holders may also enter into options or other transactions with broker-dealers or other financial institutions which require the delivery of shares offered by this prospectus to those broker-dealers or other financial institutions. The broker-dealer or other financial institution may then resell the shares pursuant to this prospectus (as amended or supplemented, if required by applicable law, to reflect those transactions).

The selling security holders and any broker-dealers that act in connection with the sale of shares may be deemed to be “underwriters” within the meaning of Section 2(11) of the Securities Act of 1933, and any commissions received by broker-dealers or any profit on the resale of the shares sold by them while acting as principals may be deemed to be underwriting discounts or commissions under the Securities Act. The selling security holders may agree to indemnify any agent, dealer or broker-dealer that participates in transactions involving sales of the shares against liabilities, including liabilities arising under the Securities Act. We have agreed to indemnify each of the selling security holders and each selling security holder has agreed, severally and not jointly, to indemnify us against some liabilities in connection with the offering of the shares, including liabilities arising under the Securities Act.

The selling security holders will be subject to the prospectus delivery requirements of the Securities Act. We have informed the selling security holders that the anti-manipulative provisions of Regulation M promulgated under the Securities Exchange Act of 1934 may apply to their sales in the market.

Selling security holders also may resell all or a portion of the shares in open market transactions in reliance upon Rule 144 under the Securities Act, provided they meet the criteria and conform to the requirements of Rule 144.

Upon being notified by a selling security holder that a material arrangement has been entered into with a broker-dealer for the sale of shares through a block trade, special offering, exchange distribution or secondary distribution or a purchase by a broker or dealer, we will file a supplement to this prospectus, if required pursuant to Rule 424(b) under the Securities Act, disclosing:

- the name of each such selling security holder and of the participating broker-dealer(s);
- the number of shares involved;
- the initial price at which the shares were sold;
- the commissions paid or discounts or concessions allowed to the broker-dealer(s),

where applicable;

- that such broker-dealer(s) did not conduct any investigation to verify the information set out or incorporated by reference in this prospectus; and
- other facts material to the transactions.

In addition, if required under applicable law or the rules or regulations of the Commission, we will file a supplement to this prospectus when a selling security holder notifies us that a donee or pledgee intends to sell more than 500 shares of common stock.

We are paying all expenses and fees customarily paid by the issuer in connection with the registration of the shares. The selling security holders will bear all brokerage or underwriting discounts or commissions paid to broker-dealers in connection with the sale of the shares.

EXHIBIT B

FORM OF NOTICE OF EFFECTIVENESS OF REGISTRATION STATEMENT

[Name and Address of Transfer Agent]

Re: Access Pharmaceuticals, Inc.

Dear
[_____]:

We are counsel to Access Pharmaceuticals, Inc., a Delaware corporation (the “*Company*”), and have represented the Company in connection with that certain Convertible Preferred Stock and Warrant Purchase Agreement (the “*Purchase Agreement*”) dated as of _____, 2007 by and among the Company and the buyers named therein (collectively, the “*Holder*s”) pursuant to which the Company issued to the Holders its Series A convertible preferred stock (the “*Preferred Stock*”) convertible into shares of its Common Stock, par value \$0.01 per share (the “*Common Stock*”), and warrants to purchase shares of the Common Stock (the “*Warrants*”). Pursuant to the Purchase Agreement, the Company has also entered into an Investor Rights Agreement with the Holders (the “*Investor Rights Agreement*”) pursuant to which the Company agreed, among other things, to register the shares of Common Stock issuable upon conversion of the Preferred Stock, in payment of dividends on the Preferred stock and upon exercise of the Warrants, under the Securities Act of 1933, as amended (the “1933 Act”). In connection with the Company’s obligations under the Investor Rights Agreement, on _____, 2006, the Company filed a Registration Statement on Form S-____ (File No. 333-_____) (the “Registration Statement”) with the Securities and Exchange Commission (the “SEC”) relating to the Registrable Securities which names each of the Holders as a selling securityholder thereunder.

In connection with the foregoing, we advise you that a member of the SEC’s staff has advised us by telephone that the SEC has entered an order declaring the Registration Statement effective under the 1933 Act at [ENTER TIME OF EFFECTIVENESS] on [ENTER DATE OF EFFECTIVENESS] and we have no knowledge, after telephonic inquiry of a member of the SEC’s staff, that any stop order suspending its effectiveness has been issued or that any proceedings for that purpose are pending before, or threatened by, the SEC and the Registrable Securities are available for resale under the 1933 Act pursuant to the Registration Statement.

Very truly yours,

By: _____
cc : [LIST NAMES OF HOLDERS]

Selling Securityholder Notice and Questionnaire

The undersigned beneficial owner of common stock (the “Registrable Securities”) of _____, a _____ corporation (the “Company”), understands that the Company has filed or intends to file with the Securities and Exchange Commission (the “Commission”) a registration statement (the “Registration Statement”) for the registration and resale under Rule 415 of the Securities Act of 1933, as amended (the “Securities Act”), of the Registrable Securities, in accordance with the terms of the Registration Rights Agreement (the “Registration Rights Agreement”) to which this document is annexed. A copy of the Registration Rights Agreement is available from the Company upon request at the address set forth below. All capitalized terms not otherwise defined herein shall have the meanings ascribed thereto in the Registration Rights Agreement.

Certain legal consequences arise from being named as a selling securityholder in the Registration Statement and the related prospectus. Accordingly, holders and beneficial owners of Registrable Securities are advised to consult their own securities law counsel regarding the consequences of being named or not being named as a selling securityholder in the Registration Statement and the related prospectus.

NOTICE

The undersigned beneficial owner (the “Selling Securityholder”) of Registrable Securities hereby elects to include the Registrable Securities owned by it in the Registration Statement.

The undersigned hereby provides the following information to the Company and represents and warrants that such information is accurate:

QUESTIONNAIRE

1. Name.

(a) Full Legal Name of Selling Securityholder

(b) Full Legal Name of Registered Holder (if not the same as (a) above) through which Registrable Securities are held:

(c) Full Legal Name of Natural Control Person (which means a natural person who directly or indirectly alone or with others has power to vote or dispose of the securities covered by this Questionnaire):

2. Address for Notices to Selling Securityholder:

Telephone: _____

Fax: _____

Contact Person: _____

3. Broker-Dealer Status:

(a) Are you a broker-dealer?

Yes No

(b) If “yes” to Section 3(a), did you receive your Registrable Securities as compensation for investment banking services to the Company?

Yes No

Note: If “no” to Section 3(b), the Commission’s staff has indicated that you should be identified as an underwriter in the Registration Statement.

(c) Are you an affiliate of a broker-dealer?

Yes No

(d) If you are an affiliate of a broker-dealer, do you certify that you purchased the Registrable Securities in the ordinary course of business, and at the time of the purchase of the Registrable Securities to be resold, you had no agreements or understandings, directly or indirectly, with any person to distribute the Registrable Securities?

Yes No

Note: If “no” to Section 3(d), the Commission’s staff has indicated that you should be identified as an underwriter in the Registration Statement.

4. Beneficial Ownership of Securities of the Company Owned by the Selling Securityholder.

Except as set forth below in this Item 4, the undersigned is not the beneficial or registered owner of any securities of the Company other than the securities issuable pursuant to the Purchase Agreement.

(a) Type and Amount of other securities beneficially owned by the Selling Securityholder:

5. Relationships with the Company:

Except as set forth below, neither the undersigned nor any of its affiliates, officers, directors or principal equity holders (owners of 5% of more of the equity securities of the undersigned) has held any position or office or has had any other material relationship with the Company (or its predecessors or affiliates) during the past three years.

State any exceptions here:

The undersigned agrees to promptly notify the Company of any inaccuracies or changes in the information provided herein that may occur subsequent to the date hereof at any time while the Registration Statement remains effective.

By signing below, the undersigned consents to the disclosure of the information contained herein in its answers to Items 1 through 5 and the inclusion of such information in the Registration Statement and the related prospectus and any amendments or supplements thereto. The undersigned understands that such information will be relied upon by the Company in connection with the preparation or amendment of the Registration Statement and the related prospectus.

IN WITNESS WHEREOF the undersigned, by authority duly given, has caused this Notice and Questionnaire to be executed and delivered either in person or by its duly authorized agent.

Date: _____ Beneficial Owner: _____

By: _____
Name:
Title:

PLEASE FAX A COPY OF THE COMPLETED AND EXECUTED NOTICE AND QUESTIONNAIRE, AND RETURN THE ORIGINAL BY OVERNIGHT MAIL, TO:

THIS WARRANT AND THE SECURITIES REPRESENTED HEREBY HAVE NOT BEEN REGISTERED UNDER THE SECURITIES ACT OF 1933, AS AMENDED, AND MAY NOT BE OFFERED, SOLD, ASSIGNED OR TRANSFERRED, IN THE ABSENCE OF AN EFFECTIVE REGISTRATION STATEMENT UNDER SAID ACT OR UNLESS THE COMPANY HAS RECEIVED AN OPINION OF COUNSEL REASONABLY SATISFACTORY TO THE COMPANY THAT REGISTRATION UNDER SAID ACT IS NOT REQUIRED.

Warrant No. W-Nov2007-_____

COMMON STOCK PURCHASE WARRANT

To Purchase [50% X (Issue Amount)/(Conversion Price)] Shares of Common Stock of
ACCESS PHARMACEUTICALS, INC.

THIS IS TO CERTIFY THAT _____, or registered assigns (the "Holder"), is entitled, during the Exercise Period (as hereinafter defined), to purchase from Access Pharmaceuticals, Inc., a Delaware corporation (the "Company"), the Warrant Stock (as hereinafter defined and subject to adjustment as provided herein), in whole or in part, at a purchase price of \$3.50 per share (as adjusted herein), all on and subject to the terms and conditions hereinafter set forth.

1. Definitions. As used in this Warrant, the following terms have the respective meanings set forth below:

"Additional Shares of Common Stock" means any shares of Common Stock issued by the Company after the Closing Date other than: (A) shares of Common Stock issued upon the conversion of the Preferred Stock, the exercise of the warrants issued pursuant to the Purchase Agreement or payment of dividends on the Preferred Stock, (B) shares of Common Stock issued upon the exercise of any warrants or options (collectively, the "Existing Warrants") outstanding on the date hereof; provided that such securities have not been amended since the date of the Purchase Agreement to increase the number of such securities or to decrease the exercise, exchange or conversion price of such securities, (C) shares of Common Stock issued, stock awards or options under, or the exercise of any options granted pursuant to, any stock-based compensation plans of the Company duly adopted 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 for such purpose (in each case, at issuance or exercise prices at or above fair market value), (D) shares of Common Stock pursuant to a stock split, combination or subdivision of the outstanding shares of Common Stock, (E) shares of Common Stock or Common Stock Equivalents issued in connection with a bona-fide strategic transaction approved by the Board of Directors of the Company, the primary purpose of which is not to provide financing to the Company or (F) shares of Preferred Stock and warrants to purchase Common Stock, in each case, issued pursuant to the Purchase Agreement.

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

“Appraised Value” means, in respect of any share of Common Stock on any date herein specified, the fair saleable value of such share of Common Stock (determined without giving effect to the discount for (i) a minority interest or (ii) any lack of liquidity of the Common Stock or to the fact that the Company may have no class of equity registered under the Exchange Act) as of the last day of the most recent fiscal month ending prior to such date specified, based on the value of the Company on a fully-diluted basis, as determined by a nationally recognized investment banking firm selected by the Company’s Board of Directors and having no prior relationship with the Company.

“Business Day” means any day except Saturday, Sunday and any day which shall be a legal holiday or a day on which banking institutions in the State of Texas generally are authorized or required by law or other government actions to close.

“Change of Control” means the (i) acquisition by an individual or legal entity or group (as set forth in Section 13(d) of the Exchange Act), other than SCO Capital Partners LLC and its Affiliates, of more than one-half of the voting rights or equity interests in the Company other than in connection with the exercise or conversion of currently outstanding warrants or convertible securities; or (ii) sale, conveyance, or other disposition of all or substantially all of the assets, property or business of the Company or the merger into or consolidation with any other corporation (other than a wholly owned subsidiary corporation) or effectuation of any transaction or series of related transactions where holders of the Company’s voting securities prior to such transaction or series of transactions fail to continue to hold at least 50% of the voting power of the Company (or, if other than the Company, the successor or acquiring entity) immediately following such transaction; or (iii) any tender offer or exchange offer (whether by the Company or another Person) is completed pursuant to which holders of Common Stock are permitted to tender or exchange their shares for other securities, cash or property, 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.

“Closing Date” means November ___, 2007.

“Commission” means the Securities and Exchange Commission or any other federal agency then administering the Securities Act and other federal securities laws.

“Common Stock” means (except where the context otherwise indicates) the Common Stock, \$0.01 par value per share, of the Company as constituted on the Closing Date, and any capital stock into which such Common Stock may thereafter be changed or converted, and shall also include (i) capital stock of the Company of any other class (regardless of how denominated) issued to the holders of shares of Common Stock upon any reclassification thereof which is also not preferred as to dividends or assets on liquidation over any other class of stock of the

Company and which is not subject to redemption and (ii) shares of common stock of any successor or acquiring corporation received by or distributed to the holders of Common Stock of the Company in the circumstances contemplated by Section 4.6.

“Common Stock Equivalents” has the meaning set forth in Section 4.3.

“Current Market Price” means, in respect of any share of Common Stock on any date herein specified,

(1) if there shall not then be a public market for the Common Stock, the higher of

(a) the book value per share of Common Stock at such date, and

(b) the Appraised Value per share of Common Stock at such date,

or

(2) if there shall then be a public market for the Common Stock, the average of the daily market prices for the trading day immediately before such date. The daily market price for each such trading day shall be (i) the closing bid price on such day on the principal stock exchange (including Nasdaq) on which such Common Stock is then listed or admitted to trading, or quoted, as applicable, (ii) if no sale takes place on such day on any such exchange, the last reported closing bid price on such day as officially quoted on any such exchange (including Nasdaq), (iii) if the Common Stock is not then listed or admitted to trading on any stock exchange, the last reported closing bid price on such day in the over-the-counter market, as furnished by the National Association of Securities Dealers Automatic Quotation System or the Pink Sheets LLC, (iv) if neither such corporation at the time is engaged in the business of reporting such prices, as furnished by any similar firm then engaged in such business, or (v) if there is no such firm, as furnished by any member of FINRA selected in good faith by the Holder and reasonably acceptable to the Company.

“Current Warrant Price” means, in respect of a share of Common Stock at any date herein specified, the price at which a share of Common Stock may be purchased pursuant to this Warrant on such date. Unless and until the Current Warrant Price is adjusted pursuant to the terms herein, the initial Current Warrant Price shall be \$3.50 per share of Common Stock.

“Exchange Act” means the Securities Exchange Act of 1934, as amended, or any similar federal statute, and the rules and regulations of the Commission thereunder, all as the same shall be in effect from time to time.

“Exercise Period” means the period during which this Warrant is exercisable pursuant to Section 2.1.

“Expiration Date” means November ____, 2013.

“GAAP” means generally accepted accounting principles in the United States of America as from time to time in effect.

“FINRA” means the Financial Industry Regulatory Authority, or any successor entity thereto.

“Other Property” has the meaning set forth in Section 4.6.

“Person” means any individual, sole proprietorship, partnership, joint venture, trust, incorporated organization, association, corporation, limited liability company, institution, public benefit corporation, entity or government (whether federal, state, county, city, municipal or otherwise, including, without limitation, any instrumentality, division, agency, body or department thereof).

“Preferred Stock” shall mean the Company’s Series A Cumulative Convertible Preferred Stock, par value \$0.01 per share, issued pursuant to the Purchase Agreement.

“Purchase Agreement” means that certain Preferred Stock and Warrant Purchase Agreement dated as of November 7, 2007 among the Company and the other parties named therein, pursuant to which this Warrant was originally issued.

“Restricted Common Stock” means shares of Common Stock which are, or which upon their issuance upon the exercise of any Warrant would be required to be, evidenced by a certificate bearing the restrictive legend set forth in Section 3.2.

“Securities Act” means the Securities Act of 1933, as amended, or any similar federal statute, and the rules and regulations of the Commission thereunder, all as the same shall be in effect at the time.

“Trading Day” means any day on which the primary market on which shares of Common Stock are listed or quoted is open for trading, or, if the Common Stock is no then listed or quoted for trading on any public market, Trading Day shall mean a Business Day.

“Transfer” means any disposition of any Warrant or Warrant Stock or of any interest in either thereof, which would constitute a sale thereof within the meaning of the Securities Act.

“Warrants” means this Warrant and all warrants issued upon transfer, division or combination of, or in substitution for, any thereof. All Warrants shall at all times be identical as to terms and conditions and date, except as to the number of shares of Common Stock for which they may be exercised.

“Warrant Price” means an amount equal to (i) the number of shares of Common Stock being purchased upon exercise of this Warrant pursuant to Section 2.1, multiplied by (ii) the Current Warrant Price.

“Warrant Stock” means the shares of Common Stock to be purchased upon the exercise hereof, subject to adjustment as provided herein.

2. Exercise of Warrant

2.1. Manner of Exercise. From and after the Closing Date, and until 5:00 P.M., New York time, on the Expiration Date (the "Exercise Period"), the Holder may exercise this Warrant, on any Business Day, for all or any part of the number of shares of Warrant Stock purchasable hereunder. The exercise price per share of the Common Stock under this Warrant shall be the Current Warrant Price, subject to adjustment hereunder.

(i) In order to exercise this Warrant, in whole or in part, the Holder shall deliver to the Company at its principal office or at the office or agency designated by the Company pursuant to Section 12, (i) a written notice of Holder's election to exercise this Warrant, which notice shall specify the number of shares of Warrant Stock to be purchased, and (ii) payment of the Warrant Price as provided herein. Such notice shall be substantially in the form of the subscription form appearing at the end of this Warrant as Exhibit A, duly executed by the Holder or its agent or attorney.

(ii) Upon receipt thereof, the Company shall, as promptly as practicable, and in any event within three Business Days thereafter, execute or cause to be executed and deliver or cause to be delivered to the Holder a certificate or certificates representing the aggregate number of full shares of Warrant Stock issuable upon such exercise, together with cash in lieu of any fraction of a share, as hereinafter provided. The stock certificate or certificates so delivered shall be, to the extent possible, in such denomination or denominations as the Holder shall request in the notice and shall be registered in the name of the Holder or if permitted pursuant to the terms of this Warrant such other name as shall be designated in the notice. Certificates for shares purchased hereunder shall be transmitted by the transfer agent of the Company to the Holder by crediting the account of the Holder's prime broker with the Depository Trust Company through its Deposit Withdrawal Agent Commission ("DWAC") system if the Company is a participant in such system and there is an effective Registration Statement permitting the resale of the Warrant Stocks by the Holder, and otherwise by physical delivery to the address specified by the Holder in the exercise notice within 3 Trading Days from the delivery to the Company of the exercise notice, surrender of this Warrant (if required) and payment of the aggregate Exercise Price as set forth above ("Warrant Share Delivery Date"). This Warrant shall be deemed to have been exercised and such certificate or certificates shall be deemed to have been issued, and the Holder or any other Person so designated to be named therein shall be deemed to have become a Holder of record of such shares for all purposes, as of the date when the notice, together with the payment of the Warrant Price and this Warrant, is received by the Company as described above. If the Company fails for any reason to deliver to the Holder certificates evidencing the Warrant Stock subject to a Notice of Exercise by the Warrant Share Delivery Date, the Company shall pay to the Holder, in cash, as liquidated damages and not as a penalty, for each \$1,000 of Warrant Stock subject to such exercise (based on the VWAP of the Common Stock on the date of the applicable Notice of Exercise), \$10 per Trading Day (increasing to \$20 per Trading Day on the fifth Trading Day after such liquidated damages begin to accrue) for each Trading Day after such Warrant Share Delivery Date until such certificates are delivered.

(iii) If the Company fails to cause its transfer agent to transmit to the Holder a certificate or certificates representing the Warrant Stock pursuant to an exercise on or before the Warrant Share Delivery Date, and if after such date the Holder is required by its broker to purchase (in an open market transaction or otherwise) or the Holder's brokerage firm otherwise

purchases, shares of Common Stock to deliver in satisfaction of a sale by the Holder of the Warrant Stock which the Holder anticipated receiving upon such exercise (a "Buy-In"), then the Company shall (1) pay in cash to the Holder the amount by which (x) the Holder's total purchase price (including brokerage commissions, if any) for the shares of Common Stock so purchased exceeds (y) the amount obtained by multiplying (A) the number of Warrant Stock that the Company was required to deliver to the Holder in connection with the exercise at issue times (B) the price at which the sell order giving rise to such purchase obligation was executed, and (2) at the option of the Holder, either reinstate the portion of the Warrant and equivalent number of Warrant Stock for which such exercise was not honored or deliver to the Holder the number of shares of Common Stock that would have been issued had the Company timely complied with its exercise and delivery obligations hereunder. For example, if the Holder purchases Common Stock having a total purchase price of \$11,000 to cover a Buy-In with respect to an attempted exercise of shares of Common Stock with an aggregate sale price giving rise to such purchase obligation of \$10,000, under clause (1) of the immediately preceding sentence the Company shall be required to pay the Holder \$1,000. 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. Nothing herein shall limit a Holder's right to pursue any other remedies available to it hereunder, at law or in equity including, without limitation, a decree of specific performance and/or injunctive relief with respect to the Company's failure to timely deliver certificates representing shares of Common Stock upon exercise of the Warrant as required pursuant to the terms hereof.

(iv) Notwithstanding anything herein to the contrary, the Holder shall not be required to physically surrender this Warrant to the Company until the Holder has purchased all of the Warrant Stock available hereunder and the Warrant has been exercised in full, in which case, the Holder shall surrender this Warrant to the Company for cancellation within 3 Trading Days of the date the final exercise notice is delivered to the Company. Partial exercises of this Warrant resulting in purchases of a portion of the total number of Warrant Stock available hereunder shall have the effect of lowering the outstanding number of Warrant Stock purchasable hereunder in an amount equal to the applicable number of Warrant Stock purchased. If this Warrant shall have been exercised in part, the Company shall, at the request of a Holder and upon surrender of this Warrant certificate, at the time of delivery of the certificate or certificates representing Warrant Stock, deliver to Holder a new Warrant evidencing the rights of Holder to purchase the unpurchased Warrant Stock called for by this Warrant, which new Warrant shall in all other respects be identical with this Warrant.

(v) Payment of the Warrant Price may be made at the option of the Holder by: (i) certified or official bank check payable to the order of the Company, (ii) wire transfer of immediately available funds to the account of the Company or (iii) the surrender and cancellation of a portion of shares of Common Stock then held by the Holder or issuable upon such exercise of this Warrant, which shall be valued and credited toward the total Warrant Price due the Company for the exercise of the Warrant based upon the Current Market Price of the Common Stock. All shares of Common Stock issuable upon the exercise of this Warrant pursuant to the terms hereof shall be validly issued and, upon payment of the Warrant Price, shall be fully paid and nonassessable and not subject to any preemptive rights.

(vi) If the Company fails to cause its transfer agent to transmit to the Holder a certificate or certificates representing the Warrant Stock pursuant to Section 2.1(ii) by the Warrant Share Delivery Date, then the Holder will have the right to rescind such exercise.

(vii) The Holder and the Company shall maintain records showing the number of Warrant Stock purchased and the date of such purchases. The Company shall deliver any objection to any exercise notice within 1 Business Day of receipt of such notice. In the event of any dispute or discrepancy, the records of the Holder shall be controlling and determinative in the absence of manifest error. **The Holder and any assignee, by acceptance of this Warrant, acknowledge and agree that, by reason of the provisions of this paragraph, following the purchase of a portion of the Warrant Stock hereunder, the number of Warrant Stock available for purchase hereunder at any given time may be less than the amount stated on the face hereof.**

2.2. Fractional Shares. The Company shall not be required to issue a fractional share of Common Stock upon exercise of any Warrant. As to any fraction of a share which the Holder of one or more Warrants, the rights under which are exercised in the same transaction, would otherwise be entitled to purchase upon such exercise, the Company shall pay an amount in cash equal to the Current Market Price per share of Common Stock on the date of exercise multiplied by such fraction.

2.3. Continued Validity. A Holder of shares of Common Stock issued upon the exercise of this Warrant, in whole or in part (other than a Holder who acquires such shares after the same have been publicly sold pursuant to a Registration Statement under the Securities Act or sold pursuant to Rule 144 thereunder), shall continue to be entitled with respect to such shares to all rights to which it would have been entitled as the Holder under Sections 10 and 13 of this Warrant.

2.4. Restrictions on Exercise Amount.

(i) Unless a Holder delivers to the Company irrevocable written notice prior to the date of issuance hereof or sixty-one days prior to the effective date of such notice that this Section 2.4(i) shall not apply to such Holder, the Holder may not acquire a number of shares of Warrant Stock to the extent that, upon such exercise, the number of shares of Common Stock then beneficially owned by such holder and its Affiliates and any other persons or entities whose beneficial ownership of Common Stock would be aggregated with the Holder's for purposes of Section 13(d) of the Exchange Act (including shares held by any "group" of which the holder is a member, but excluding shares beneficially owned by virtue of the ownership of securities or rights to acquire securities that have limitations on the right to convert, exercise or purchase similar to the limitation set forth herein) exceeds 4.99% of the total number of shares of Common Stock of the Company then issued and outstanding. For purposes hereof, "group" has the meaning set forth in Section 13(d) of the Exchange Act and applicable regulations of the Commission, and the percentage held by the holder shall be determined in a manner consistent with the provisions of Section 13(d) of the Exchange Act. Except as set forth in the preceding sentence, for purposes of this Section, the number of shares of Common Stock beneficially owned by the Holder and its Affiliates shall include the number of shares of Common Stock issuable upon exercise of this Warrant with respect to which such determination is being made,

but shall exclude the number of shares of Common Stock which would be issuable upon (A) exercise of the remaining, nonexercised portion of this Warrant beneficially owned by the Holder or any of its Affiliates and (B) exercise or conversion of the unexercised or nonconverted portion of any other securities of the Company (including, without limitation, any the Preferred Stock) subject to a limitation on conversion or exercise analogous to the limitation contained herein beneficially owned by the Holder or any of its affiliates. For purposes of this Section, in determining the number of outstanding shares of Common Stock, a Holder may rely on the number of outstanding shares of Common Stock as reflected in (x) the Company's most recent Form 10-QSB or Form 10-KSB, as the case may be, (y) a more recent public announcement by the Company or (z) any other notice by the Company or the Company's Transfer Agent setting forth the number of shares of Common Stock outstanding. Each delivery of a notice of exercise by a Holder will constitute a representation by such Holder that it has evaluated the limitation set forth in this paragraph and determined, based on the most recent public filings by the Company with the Commission, that the issuance of the full number of shares of Warrant Stock requested in such notice of exercise is permitted under this paragraph.

(ii) In the event the Company is prohibited from issuing shares of Warrant Stock as a result of any restrictions or prohibitions under applicable law or the rules or regulations of any stock exchange, interdealer quotation system or other self-regulatory organization, the Company shall as soon as possible seek the approval of its stockholders and take such other action to authorize the issuance of the full number of shares of Common Stock issuable upon exercise of this Warrant.

3. Transfer, Division and Combination.

3.1. Transfer. The Warrants and the Warrant Stock shall be freely transferable, subject to compliance with this Section 3.1 and all applicable laws, including, but not limited to the Securities Act. If, at the time of the surrender of this Warrant in connection with any transfer of this Warrant or the resale of the Warrant Stock, this Warrant or the Warrant Stock, as applicable, shall not be registered under the Securities Act, the Company may require, as a condition of allowing such transfer (i) that the Holder or transferee of this Warrant or the Warrant Stock as the case may be, furnish to the Company a written opinion of counsel that is reasonably acceptable to the Company to the effect that such transfer may be made without registration under the Securities Act, (ii) that the Holder or transferee execute and deliver to the Company an investment representation letter in form and substance acceptable to the Company and substantially in the form attached as Exhibit C hereto and (iii) that the transferee be an "accredited investor" as defined in Rule 501(a) promulgated under the Securities Act. Transfer of this Warrant and all rights hereunder, in whole or in part, in accordance with the foregoing provisions, shall be registered on the books of the Company to be maintained for such purpose, upon surrender of this Warrant at the principal office of the Company referred to in Section 2.1 or the office or agency designated by the Company pursuant to Section 12, together with a written assignment of this Warrant substantially in the form of Exhibit B hereto duly executed by the Holder or its agent or attorney and funds sufficient to pay any transfer taxes payable upon the making of such transfer. Upon such surrender and, if required, such payment, the Company shall execute and deliver a new Warrant or Warrants in the name of the assignee or assignees and in the denomination specified in such instrument of assignment, and shall issue to the assignor a new Warrant evidencing the portion of this Warrant not so assigned, and this Warrant shall

promptly be cancelled. Following a transfer that complies with the requirements of this Section 3.1, the Warrant may be exercised by a new Holder for the purchase of shares of Common Stock regardless of whether the Company issued or registered a new Warrant on the books of the Company.

3.2. Restrictive Legends. Each certificate for Warrant Stock initially issued upon the exercise of this Warrant, and each certificate for Warrant Stock issued to any subsequent transferee of any such certificate, unless, in each case, such Warrant Stock is eligible for resale without registration pursuant to Rule 144(k) under the Exchange Act or such Warrant Stock is registered for sale under an effective registration statement filed under the Securities Act, shall bear the following legend:

“THE SHARES REPRESENTED BY THIS CERTIFICATE HAVE NOT BEEN REGISTERED UNDER THE SECURITIES ACT OF 1933 AS AMENDED, AND MAY NOT BE OFFERED OR SOLD IN THE ABSENCE OF AN EFFECTIVE REGISTRATION STATEMENT UNDER SAID ACT UNLESS, IN THE OPINION OF COUNSEL REASONABLY SATISFACTORY TO THE COMPANY, SUCH REGISTRATION IS NOT REQUIRED.”

In addition, the legend set forth above shall be removed and the Company shall issue a certificate without such legend to the holder of any Warrant Stock upon which it is stamped, if, unless otherwise required by applicable state securities laws, such Warrant Stock is registered for sale under an effective registration statement filed under the Securities Act.

3.3. Division and Combination; Expenses; Books. This Warrant may be divided or combined with other Warrants upon presentation hereof at the aforesaid office or agency of the Company, together with a written notice specifying the names and denominations in which new Warrants are to be issued, signed by the Holder or its agent or attorney. Subject to compliance with Section 3.1 as to any transfer which may be involved in such division or combination, the Company shall execute and deliver a new Warrant or Warrants in exchange for the Warrant or Warrants to be divided or combined in accordance with such notice. The Company shall prepare, issue and deliver at its own expense the new Warrant or Warrants under this Section 3. The Company agrees to maintain, at its aforesaid office or agency, books for the registration and the registration of transfer of the Warrants.

4. Adjustments. The number of shares of Common Stock for which this Warrant is exercisable, and the price at which such shares may be purchased upon exercise of this Warrant, shall be subject to adjustment from time to time as set forth in this Section 4. The Company shall give the Holder notice of any event described below which requires an adjustment pursuant to this Section 4 in accordance with Sections 5.1 and 5.2.

4.1. Stock Dividends, Subdivisions and Combinations. If at any time while this Warrant is outstanding the Company shall:

- (i) declare a dividend or make a distribution on its outstanding shares of Common Stock in shares of Common Stock,
- (ii) subdivide its outstanding shares of Common Stock into a larger number of shares of Common Stock, or

(iii) combine its outstanding shares of Common Stock into a smaller number of shares of Common Stock, then:

(1) the number of shares of Common Stock acquirable upon exercise of this Warrant immediately after the occurrence of any such event shall be adjusted to equal the number of shares of Common Stock which a record holder of the same number of shares of Common Stock that would have been acquirable under this Warrant immediately prior to the record date for such dividend or distribution or the effective date of such subdivision or combination would own or be entitled to receive after such record date or the effective date of such subdivision or combination, as applicable, and

(2) the Current Warrant Price shall be adjusted to equal:

(A) the Current Warrant Price in effect at the time of the record date for such dividend or distribution or of the effective date of such subdivision or combination, multiplied by the number of shares of Common Stock into which this Warrant is exercisable immediately prior to the adjustment, divided by

(B) the number of shares of Common Stock into which this Warrant is exercisable immediately after such adjustment.

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 clauses (ii) or (iii) of this paragraph shall become effective immediately after the effective date of such subdivision or combination.

4.2. Issuance of Additional Shares of Common Stock

(i) If, at any time while this Warrant is outstanding, the Company shall issue or sell any Additional Shares of Common Stock in exchange for consideration in an amount per Additional Share of Common Stock less than the Current Warrant Price at the time the Additional Shares of Common Stock are issued or sold, then the Current Warrant Price immediately prior to such issue or sale shall be reduced to a price equal to the lowest price per share of the Additional Shares of Common Stock received by or to be received by the Company upon such issue or sale of such Additional Shares of Common Stock.

(ii) The provisions of paragraph 4.2(i) shall not apply to any issuance of Additional Shares of Common Stock for which an adjustment is provided under Section 4.1.

4.3. Issuance of Common Stock Equivalents. If, at any time while this Warrant is outstanding, the Company shall issue or sell any warrants or rights to subscribe for or purchase any Additional Shares of Common Stock or any securities exchangeable or convertible into Additional Shares of Common Stock (regardless of the number of shares of Common Stock that the Company is then authorized to issue) (collectively, "Common Stock Equivalents"), whether or not the rights to exchange or convert thereunder are immediately exercisable, and the effective price per share for which Common Stock is issuable upon the exercise, exchange or conversion

of such Common Stock Equivalents shall be less than the Current Warrant Price in effect immediately prior to the time of such issue or sale, then the Current Warrant Price shall be adjusted as provided in Section 4.2 on the basis that the Additional Shares of Common Stock issuable pursuant to such Common Stock Equivalents shall be deemed to have been issued and the Company shall be deemed to have received all of the consideration payable therefor, if any, as of the date of the actual issuance of such Common Stock Equivalents. No further adjustments to the Current Warrant Price shall be made under this Section 4.3 upon the actual issue of such Common Stock upon the exercise, conversion or exchange of such Common Stock Equivalents.

4.4. Superseding Adjustment

(i) If, at any time after any adjustment of the Current Warrant Price shall have been made pursuant to Section 4.3 as the result of any issuance of Common Stock Equivalents, (x) the right to exercise, convert or exchange all of such Common Stock Equivalents shall expire unexercised, or (y) the conversion rate or consideration per share for which shares of Common Stock are issuable pursuant to such Common Stock Equivalents shall be increased solely by virtue of provisions therein contained for an automatic increase in such conversion rate or consideration per share upon the occurrence of a specified date or event, then, unless any of such Common Stock Equivalents have previously been converted or exercised at the original price, any such previous adjustments to the Current Warrant Price shall be rescinded and annulled and the Additional Shares of Common Stock which were deemed to have been issued by virtue of the computation made in connection with the adjustment so rescinded and annulled shall no longer be deemed to have been issued by virtue of such computation, provided, however, such readjustment to the Current Warrant Price described in this Section shall not effect any exercises of this Warrant effected at any time prior to such readjustment.

(ii) Upon the occurrence of an event set forth in Section 4.4(i) above there shall be a recomputation made of the effect of such Common Stock Equivalents on the basis of treating any such Common Stock Equivalents which then remain outstanding as having been granted or issued immediately after the time of such increase of the conversion rate or consideration per share for which shares of Common Stock or other property are issuable under such Common Stock Equivalents; whereupon a new adjustment to the Current Warrant Price shall be made, which new adjustment shall supersede the previous adjustment so rescinded and annulled.

4.5. Other Provisions Applicable to Adjustments. The following provisions shall be applicable to the making of adjustments of the number of shares of Common Stock into which this Warrant is exercisable and the Current Warrant Price provided for in Section 4:

(a) When Adjustments to Be Made. The adjustments required by Section 4 shall be made whenever and as often as any specified event requiring an adjustment shall occur, except that any that would otherwise be required may be postponed (except in the case of a subdivision or combination of shares of the Common Stock, as provided for in Section 4.1) up to, but not beyond the date of exercise if such adjustment either by itself or with other adjustments not previously made adds or subtracts less than 1% of the shares of Common Stock into which this Warrant is exercisable immediately prior to the making of such adjustment. Any adjustment representing a change of less than such minimum amount (except as aforesaid) which is postponed shall be carried forward and made as soon as such adjustment, together with other

adjustments required by this Section 4 and not previously made, would result in a minimum adjustment or on the date of exercise. For the purpose of any adjustment, any specified event shall be deemed to have occurred at the close of business on the date of its occurrence.

(b) Fractional Interests. In computing adjustments under this Section 4, fractional interests in Common Stock shall be taken into account to the nearest 1/100th of a share.

(c) When Adjustment Not Required. If the Company undertakes a transaction contemplated under this Section 4 and as a result takes a record of the holders of its Common Stock for the purpose of entitling them to receive a dividend or distribution or subscription or purchase rights or other benefits contemplated under this Section 4 and shall, thereafter and before the distribution to stockholders thereof, legally abandon its plan to pay or deliver such dividend, distribution, subscription or purchase rights or other benefits contemplated under this Section 4, then thereafter no adjustment shall be required by reason of the taking of such record and any such adjustment previously made in respect thereof shall be rescinded and annulled.

(d) Escrow of Stock. If after any property becomes distributable pursuant to Section 4 by reason of the taking of any record of the holders of Common Stock, but prior to the occurrence of the event for which such record is taken, a holder of this Warrant exercises the Warrant during such time, then such holder shall continue to be entitled to receive any shares of Common Stock issuable upon exercise hereunder by reason of such adjustment and such shares or other property shall be held in escrow for the holder of this Warrant by the Company to be issued to holder of this Warrant upon and to the extent that the event actually takes place. Notwithstanding any other provision to the contrary herein, if the event for which such record was taken fails to occur or is rescinded, then such escrowed shares shall be canceled by the Company and escrowed property returned to the Company.

4.6. Reorganization, Reclassification, Merger, Consolidation or Disposition of Assets.

(b) (a) If there shall occur a Change of Control and, pursuant to the terms of such Change of Control, shares of common stock of the successor or acquiring corporation, or any cash, shares of stock or other securities or property of any nature whatsoever (including warrants or other subscription or purchase rights) in addition to or in lieu of common stock of the successor or acquiring corporation (“Other Property”), are to be received by or distributed to the holders of Common Stock of the Company, then the Holder of this Warrant shall have the right thereafter to receive, upon the exercise of the Warrant, the number of shares of common stock of the successor or acquiring corporation or of the Company, if it is the surviving corporation, and the Other Property receivable upon or as a result of such Change of Control by a holder of the number of shares of Common Stock into which this Warrant is exercisable immediately prior to such event. The Company shall not effect any Change of Control without the prior written consent of the holders of a majority in interest of the Warrants (as defined in the Purchase

Agreement) (in addition to any other consent or voting rights with respect to such Change of Control that such holders may have pursuant to this Warrant or applicable law) unless the resulting successor or acquiring entity (if not the Company) and, if an entity different from the successor or acquiring entity, the entity whose capital stock or assets the holders of the Common Stock are entitled to receive as a result of such Change of Control, assumes by written instrument all of the obligations of this Warrant and the Transaction Documents (as defined in the Purchase Agreement). Notwithstanding anything to the contrary, in the event of a Change of Control that is (1) an all cash transaction, (2) a "Rule 13e-3 transaction" as defined in Rule 13e-3 under the Exchange Act, or (3) a Change of Control involving a person or entity not traded on a national securities exchange, the Nasdaq Global Select Market, the Nasdaq Global Market, or the Nasdaq Capital Market, the Company or any successor entity shall pay at the Holder's option, exercisable at any time concurrently with or within 30 days after the consummation of the Change of Control, an amount of cash equal to the value of this Warrant as determined in accordance with the Black Scholes Option Pricing Model obtained from the "OV" function on Bloomberg L.P. using (i) a price per share of Common Stock equal to the VWAP of the Common Stock for the Trading Day immediately preceding the date of consummation of the applicable Change of Control, (ii) a risk-free interest rate corresponding to the U.S. Treasury rate for a period equal to the remaining term of this Warrant as of the date of consummation of the applicable Change of Control and (iii) an expected volatility equal to the 100 day volatility obtained from the "HVT" function on Bloomberg L.P. determined as of the Trading Day immediately following the public announcement of the applicable Change of Control.

(b) In case of any such Change of Control described in Section 4.6(a) above, the resulting, successor or acquiring entity (if not the Company) and, if an entity different from the successor or acquiring entity, the entity whose capital stock or assets the holders of the Common Stock are entitled to receive as a result of such Change of Control, shall assume by written instrument all of the obligations of this Warrant and the Transaction Documents (as defined in the Purchase Agreement), subject to such modifications as may be deemed appropriate (as determined by resolution of the Board of Directors of the Company) in order to provide for adjustments of shares of the Common Stock into which this Warrant is exercisable which shall be as nearly equivalent as practicable to the adjustments provided for in Section 4. For purposes of Section 4, common stock of the successor or acquiring corporation shall include stock of such corporation of any class which is not preferred as to dividends or assets on liquidation over any other class of stock of such corporation and which is not subject to redemption and shall also include any evidences of indebtedness, shares of stock or other securities which are convertible into or exchangeable for any such stock, either immediately or upon the arrival of a specified date or the happening of a specified event and any warrants or other rights to subscribe for or purchase any such stock. The foregoing provisions of this Section 4 shall similarly apply to successive Change of Control transactions.

4.7. Other Action Affecting Common Stock. In case at any time or from time to time the Company shall take any action in respect of its Common Stock, other than the payment of dividends permitted by Section 4 or any other action described in Section 4, then, unless such action will not have a materially adverse effect upon the rights of the holder of this Warrant, the number of shares of Common Stock or other stock into which this Warrant is exercisable and/or the purchase price thereof shall be adjusted in such manner as may be equitable in the circumstances.

4.8. Certain Limitations. Notwithstanding anything herein to the contrary, the Company agrees not to enter into any transaction which, by reason of any adjustment hereunder, would cause the Current Warrant Price to be less than the par value per share of Common Stock.

4.9. Stock Transfer Taxes. The issue of stock certificates upon exercise of this Warrant shall be made without charge to the holder for any tax in respect of such issue. The Company shall not, however, be required to pay any tax which may be payable in respect of any transfer involved in the issue and delivery of shares in any name other than that of the holder of this Warrant, and the Company shall not be required to issue or deliver any such stock certificate unless and until the person or persons requesting the issue thereof shall have paid to the Company the amount of such tax or shall have established to the satisfaction of the Company that such tax has been paid.

5. Notices to Warrant Holders.

5.1. Certificate as to Adjustments. Upon the occurrence of each adjustment or readjustment of the Current Warrant Price, the Company, at its expense, shall promptly compute such adjustment or readjustment in accordance with the terms hereof and prepare and furnish to the Holder of this Warrant a certificate setting forth such adjustment or readjustment and showing in detail the facts upon which such adjustment or readjustment is based. The Company shall, upon the written request at any time of the Holder of this Warrant, furnish or cause to be furnished to such Holder a like certificate setting forth (i) such adjustments and readjustments, (ii) the Current Warrant Price at the time in effect and (iii) the number of shares of Common Stock and the amount, if any, or other property which at the time would be received upon the exercise of Warrants owned by such Holder.

5.2. Notice of Corporate Action. If at any time:

(a) the Company shall take a record of the holders of its Common Stock for the purpose of entitling them to receive a dividend (other than a cash dividend payable out of earnings or earned surplus legally available for the payment of dividends under the laws of the jurisdiction of incorporation of the Company) or other distribution, or any right to subscribe for or purchase any evidences of its indebtedness, any shares of stock of any class or any other securities or property, or to receive any other right, or

(b) there shall be any capital reorganization of the Company, any reclassification or recapitalization of the capital stock of the Company or any consolidation or merger of the Company with, or any sale, transfer or other disposition of all or substantially all the property, assets or business of the Company to, another corporation, or

(c) there shall be a voluntary or involuntary dissolution, liquidation or winding up of the Company; or

(d) the Company shall cause the holders of its Common Stock to be entitled to receive (i) any dividend or other distribution of cash, (ii) any evidences of its indebtedness, or (iii) any shares of stock of any class or any other securities or property or assets of any nature whatsoever (other than cash or additional shares of Common Stock as provided in Section 4.1 hereof and the rights under the Company's Rights Agreement, dated as of October 31, 2001, by and between the Company and American Stock Transfer & Trust Company as Rights Agent (the "Rights Agreement")); or (iv) any warrants or other rights to subscribe for or purchase any evidences of its indebtedness, any shares of stock of any class or any other securities or property or assets of any nature whatsoever;

then, in any one or more of such cases, the Company shall give to the Holder (i) at least 15 days' prior written notice of the date on which a record date shall be selected for such dividend, distribution or right or for determining rights to vote in respect of any such reorganization, reclassification, merger, consolidation, sale, transfer, disposition, dissolution, liquidation or winding up, and (ii) in the case of any such reorganization, reclassification, merger, consolidation, sale, transfer, disposition, dissolution, liquidation or winding up, at least 15 days' prior written notice of the date when the same shall take place. Such notice in accordance with the foregoing clause also shall specify (i) the date on which any such record is to be taken for the purpose of such dividend, distribution or right, the date on which the holders of Common Stock shall be entitled to any such dividend, distribution or right, and the amount and character thereof, and (ii) the date on which any such reorganization, reclassification, merger, consolidation, sale, transfer, disposition, dissolution, liquidation or winding up is to take place and the time, if any such time is to be fixed, as of which the holders of Common Stock shall be entitled to exchange their shares of Common Stock for securities or other property deliverable upon such reorganization, reclassification, merger, consolidation, sale, transfer, disposition, dissolution, liquidation or winding up. Each such written notice shall be sufficiently given if addressed to the Holder at the last address of the Holder appearing on the books of the Company and delivered in accordance with Section 15.2. Notwithstanding the foregoing provisions of this Section 5.2, the Company shall give to the Holder at least seven (7) Business Days prior written notice of the occurrence of any Distribution Date (as defined in the Rights Agreement).

5.3. No Rights as Stockholder. This Warrant does not entitle the Holder to any voting or other rights as a stockholder of the Company prior to exercise and payment for the Warrant Price in accordance with the terms hereof.

6. No Impairment. The Company shall not by any action, including, without limitation, amending its certificate of incorporation or through any reorganization, transfer of assets, consolidation, merger, dissolution, issue or sale of securities or any other voluntary action, avoid or seek to avoid the observance or performance of any of the terms of this Warrant, but will at all times in good faith assist in the carrying out of all such terms and in the taking of all such actions as may be necessary or appropriate to protect the rights of the Holder against impairment. Without limiting the generality of the foregoing, the Company will (a) not increase the par value of any shares of Common Stock receivable upon the exercise of this Warrant above the amount payable therefor upon such exercise immediately prior to such increase in par value, (b) take all such action as may be necessary or appropriate in order that the Company may validly and legally issue fully paid and nonassessable shares of Common Stock upon the exercise of this Warrant, and (c) use its best efforts to obtain all such authorizations, exemptions or consents from any public regulatory body having jurisdiction thereof as may be necessary to enable the Company to perform its obligations under this Warrant. Upon the request of the Holder, the Company will at any time during the period this Warrant is outstanding acknowledge in writing, in form satisfactory to the Holder, the continuing validity of this Warrant and the obligations of the Company hereunder.

7. Reservation and Authorization of Common Stock; Registration With Approval of Any Governmental Authority. From and after the Closing Date, the Company shall at all times reserve and keep available for issue upon the exercise of Warrants such number of its authorized but unissued shares of Common Stock as will be sufficient to permit the exercise in full of all

outstanding Warrants (without regard to any ownership limitations provided in Section 2.4(i)). All shares of Common Stock which shall be so issuable, when issued upon exercise of any Warrant and payment therefor in accordance with the terms of such Warrant, shall be duly and validly issued and fully paid and nonassessable, and not subject to preemptive rights. Before taking any action which would cause an adjustment reducing the Current Warrant Price below the then par value, if any, of the shares of Common Stock issuable upon exercise of the Warrants, the Company shall take any corporate action which may be necessary in order that the Company may validly and legally issue fully paid and non-assessable shares of such Common Stock at such adjusted Current Warrant Price. Before taking any action which would result in an adjustment in the number of shares of Common Stock for which this Warrant is exercisable or in the Current Warrant Price, the Company shall obtain all such authorizations or exemptions thereof, or consents thereto, as may be necessary from any public regulatory body or bodies having jurisdiction thereof. If any shares of Common Stock required to be reserved for issuance upon exercise of Warrants require registration or qualification with any governmental authority under any federal or state law before such shares may be so issued (other than as a result of a prior or contemplated distribution by the Holder of this Warrant), the Company will in good faith and as expeditiously as possible and at its expense endeavor to cause such shares to be duly registered.

8. Taking of Record; Stock and Warrant Transfer Books. In the case of all dividends or other distributions by the Company to the holders of its Common Stock with respect to which any provision of Section 4 refers to the taking of a record of such holders, the Company will in each such case take such a record and will take such record as of the close of business on a Business Day. The Company will not at any time, except upon dissolution, liquidation or winding up of the Company, close its stock transfer books or Warrant transfer books so as to result in preventing or delaying the exercise or transfer of any Warrant.

9. Registration Rights. The resale of the Warrant Stock shall be registered in accordance with the terms and conditions contained in that certain Investor Rights Agreement dated of even date hereof, among the Holder, the Company and the other parties named therein (the "Investor Rights Agreement"). The Holder acknowledges that pursuant to the Investor Rights Agreement, the Company has the right to request that the Holder furnish information regarding such Holder and the distribution of the Warrant Stock as is required by law or the Commission to be disclosed in the Registration Statement (as such term is defined in the Investor Rights Agreement), and the Company may exclude from such registration the shares of Warrant Stock acquirable hereunder if Holder fails to furnish such information within a reasonable time prior to the filing of each Registration Statement, supplemented prospectus included therein and/or amended Registration Statement.

10. Supplying Information. Upon any default by the Company of its obligations hereunder or under the Investor Rights Agreement, the Company shall cooperate with the Holder in supplying such information as may be reasonably necessary for such Holder to complete and file any information reporting forms presently or hereafter required by the Commission as a condition to the availability of an exemption from the Securities Act for the sale of any Warrant or Restricted Common Stock.

11. Loss or Mutilation. Upon receipt by the Company from the Holder of evidence reasonably satisfactory to it of the ownership of and the loss, theft, destruction or mutilation of this Warrant and indemnity or security reasonably satisfactory to it and reimbursement to the Company of all reasonable expenses incidental thereto and in case of mutilation upon surrender and cancellation hereof, the Company will execute and deliver in lieu hereof a new Warrant of like tenor to the Holder; provided, however, that in the case of mutilation, no indemnity shall be required if this Warrant in identifiable form is surrendered to the Company for cancellation.

12. Office of the Company. As long as any of the Warrants remain outstanding, the Company shall maintain an office or agency (which may be the principal executive offices of the Company) where the Warrants may be presented for exercise, registration of transfer, division or combination as provided in this Warrant.

13. Financial and Business Information.

13.1. Quarterly Information. The Company will deliver to the Holder, as soon as available and in any event within 45 days after the end of each of the first three quarters of each fiscal year of the Company, one copy of an unaudited consolidated balance sheet of the Company and its subsidiaries as at the end of such quarter, and the related unaudited consolidated statements of income, retained earnings and cash flow of the Company and its subsidiaries for such quarter and, in the case of the second and third quarters, for the portion of the fiscal year ending with such quarter, setting forth in each case in comparative form the figures for the corresponding periods in the previous fiscal year. Such financial statements shall be prepared by the Company in accordance with GAAP (except as may be indicated thereon or in the notes thereto) and accompanied by the certification of the Company's chief executive officer or chief financial officer that such financial statements present fairly the consolidated financial position, results of operations and cash flow of the Company and its subsidiaries as at the end of such quarter and for such year-to-date period, as the case may be; provided, however, that the Company shall have no obligation to deliver such quarterly information under this Section 13.1 to the extent it is publicly available; and provided further, that if such information contains material non-public information, the Company shall so notify the Holder prior to delivery thereof and the Holder shall have the right to refuse delivery of such information.

13.2. Annual Information. The Company will deliver to the Holder as soon as available and in any event within 90 days after the end of each fiscal year of the Company, one copy of an audited consolidated balance sheet of the Company and its subsidiaries as at the end of such year, and audited consolidated statements of income, retained earnings and cash flow of the Company and its subsidiaries for such year; setting forth in each case in comparative form the figures for the corresponding periods in the previous fiscal year; all prepared in accordance with GAAP, and which audited financial statements shall be accompanied by an opinion thereon of the independent certified public accountants regularly retained by the Company, or any other firm of independent certified public accountants of recognized national standing selected by the Company; provided, however, that the Company shall have no obligation to deliver such annual information under this Section 13.2 to the extent it is publicly available; and provided further, that if such information contains material non-public information, the Company shall so notify the Holder prior to delivery thereof and the Holder shall have the right to refuse delivery of such information.

13.3. Filings. The Company will file on or before the required date all regular or periodic reports (pursuant to the Exchange Act) with the Commission and will deliver to Holder promptly upon their becoming available one copy of each report, notice or proxy statement sent by the Company to its stockholders generally.

14. Limitation of Liability. No provision hereof, in the absence of affirmative action by the Holder to purchase shares of Common Stock, and no enumeration herein of the rights or privileges of the Holder hereof, shall give rise to any liability of the Holder for the purchase price of any Common Stock, whether such liability is asserted by the Company or by creditors of the Company.

15. Miscellaneous.

15.1. Nonwaiver and Expenses. No course of dealing or any delay or failure to exercise any right hereunder on the part of the Holder shall operate as a waiver of such right or otherwise prejudice the Holder's rights, powers or remedies. If the Company fails to make, when due, any payments provided for hereunder, or fails to comply with any other material provision of this Warrant, the Company shall pay to the Holder such amounts as shall be sufficient to cover any third party costs and expenses including, but not limited to, reasonable attorneys' fees, including those of appellate proceedings, incurred by the Holder in collecting any amounts due pursuant hereto or in otherwise enforcing any of its rights, powers or remedies hereunder.

15.2. Notice Generally. All notices, requests, demands or other communications provided for herein shall be in writing and shall be given in the manner and to the addresses set forth in the Purchase Agreement.

15.3. Successors and Assigns. Subject to compliance with the provisions of Section 3.1, this Warrant and the rights evidenced hereby shall inure to the benefit of and be binding upon the successors of the Company and the successors and assigns of the Holder. The provisions of this Warrant are intended to be for the benefit of all Holders from time to time of this Warrant, and shall be enforceable by any such Holder.

15.4. Amendment. This Warrant may be modified or amended or the provisions of this Warrant waived with the written consent of both the Company and the Holder.

15.5. Severability. Wherever possible, each provision of this Warrant shall be interpreted in such manner as to be effective and valid under applicable law, but if any provision of this Warrant shall be prohibited by or invalid under applicable law, such provision shall be modified to the extent of such prohibition or invalidity, without invalidating the remainder of such provision or the remaining provisions of this Warrant.

15.6. Headings. The headings used in this Warrant are for the convenience of reference only and shall not, for any purpose, be deemed a part of this Warrant.

15.7. Governing Law. This Warrant and the transactions contemplated hereby shall be deemed to be consummated in the State of New York and shall be governed by and interpreted in accordance with the local laws of the State of New York without regard to the provisions thereof relating to conflicts of laws. The Company hereby irrevocably consents to the exclusive

jurisdiction of the State and Federal courts located in New York City, New York in connection with any action or proceeding arising out of or relating to this Warrant. In any such litigation the Company agrees that the service thereof may be made by certified or registered mail directed to the Company pursuant to Section 15.2.

15.8. Remedies. Holder, in addition to being entitled to exercise all rights granted by law, including recovery of damages, will be entitled to specific performance of its rights under this Warrant. The Company agrees that monetary damages would not be adequate compensation for any loss incurred by reason of a breach by it of the provisions of this Warrant and hereby agrees to waive and not to assert the defense in any action for specific performance that a remedy at law would be adequate.

15.9. Saturdays, Sundays, Holidays, etc. If the last or appointed day for the taking of any action or the expiration of any right required or granted herein shall not be a Business Day, then such action may be taken or such right may be exercised on the next succeeding Business Day.

[Signature Page Follows]

IN WITNESS WHEREOF, Access Pharmaceuticals, Inc. has caused this Warrant to be executed by its duly authorized officer and attested by its Secretary.

Dated: __, 2007

ACCESS PHARMACEUTICALS, INC.

By: _____
Name: _____
Title: _____

Attest:

By: _____
Name: _____
Title: Secretary

EXHIBIT A

SUBSCRIPTION FORM

[To be executed only upon exercise of Warrant]

1. The undersigned hereby elects to purchase _____ shares of the Common Stock of Access Pharmaceuticals, Inc. pursuant to the terms of the attached Warrant, and tenders herewith payment of the purchase price of such shares in full.

2. The undersigned hereby elects to convert the attached Warrant into Common Stock of Access Pharmaceuticals, Inc. through “cashless exercise” in the manner specified in the Warrant. This conversion is exercised with respect to _____ of the Shares covered by the Warrant.

3. Please issue a certificate or certificates representing said shares in the name of the undersigned or in such other name as is specified below:

(Name)

(Address)

[and, if such shares of Common Stock shall not include all of the shares of Common Stock issuable as provided in this Warrant, that a new Warrant of like tenor and date for the balance of the shares of Common Stock issuable hereunder be delivered to the undersigned.]

(Name of Registered Owner)

(Signature of Registered Owner)

(Street Address)

(State) (Zip Code)

NOTICE: The signature on this subscription must correspond with the name as written upon the face of the Warrant in every particular, without alteration or enlargement or any change whatsoever.

EXHIBIT B

ASSIGNMENT FORM

FOR VALUE RECEIVED the undersigned registered owner of this Warrant for the purchase of shares of common stock of Access Pharmaceuticals, Inc. hereby sells, assigns and transfers unto the Assignee named below all of the rights of the undersigned under this Warrant, with respect to the number of shares of common stock set forth below:

(Name and Address of Assignee)

(Number of Shares of Common Stock)

and does hereby irrevocably constitute and appoint _____ attorney-in-fact to register such transfer on the books of the Company, maintained for the purpose, with full power of substitution in the premises.

Dated: _____

(Print Name and Title)

(Signature)

(Witness)

NOTICE: The signature on this assignment must correspond with the name as written upon the face of the Warrant in every particular, without alteration or enlargement or any change whatsoever.

EXHIBIT C

FORM OF INVESTMENT REPRESENTATION LETTER

In connection with the acquisition of [warrants (the "Warrants") to purchase _____ shares of common stock of Access Pharmaceuticals, Inc. (the "Company"), par value \$0.01 per share (the "Common Stock")][_____ shares of common stock of Access Pharmaceuticals, Inc. (the "Company"), par value \$0.01 per share (the "Common Stock") upon the exercise of warrants by _____], by _____ (the "Holder") from _____, the Holder hereby represents and warrants to the Company as follows:

The Holder (i) is an "Accredited Investor" as that term is defined in Rule 501 of Regulation D promulgated under the Securities Act of 1933, as amended (the "Act"); and (ii) has the ability to bear the economic risks of such Holder's prospective investment, including a complete loss of Holder's investment in the Warrants and the shares of Common Stock issuable upon the exercise thereof (collectively, the "Securities").

The Holder, by acceptance of the Warrants, represents and warrants to the Company that the Warrants and all securities acquired upon any and all exercises of the Warrants are purchased for the Holder's own account, and not with view to distribution of either the Warrants or any securities purchasable upon exercise thereof in violation of applicable securities laws.

[The Holder acknowledges that (i) the Securities have not been registered under the Act, (ii) the Securities are "restricted securities" and the certificate(s) representing the Securities shall bear the following legend, or a similar legend to the same effect, until (i) in the case of the shares of Common Stock underlying the Warrants, such shares shall have been registered for resale by the Holder under the Act and effectively been disposed of in accordance with a registration statement that has been declared effective; or (ii) in the opinion of counsel for the Company such Securities may be sold without registration under the Act:

"[NEITHER] THE SECURITIES REPRESENTED BY THIS CERTIFICATE [NOR THE SECURITIES INTO WHICH THEY ARE EXERCISABLE] HAVE [NOT] BEEN REGISTERED UNDER THE SECURITIES ACT OF 1933, AS AMENDED (THE "ACT"), AND ALL SUCH SECURITIES ARE SUBJECT TO RESTRICTIONS ON TRANSFERABILITY AS SET FORTH IN THIS CERTIFICATE. [NEITHER] THE SECURITIES REPRESENTED HEREBY [NOR THE SECURITIES INTO WHICH THEY ARE EXERCISABLE] MAY [NOT] BE SOLD, TRANSFERRED, OR OTHERWISE DISPOSED OF IN THE ABSENCE OF AN EFFECTIVE REGISTRATION STATEMENT UNDER THE ACT OR AN OPINION OF COUNSEL, REASONABLY ACCEPTABLE TO COUNSEL FOR THE COMPANY, TO THE EFFECT THAT THE PROPOSED SALE, TRANSFER, OR DISPOSITION MAY BE EFFECTUATED WITHOUT REGISTRATION UNDER THE ACT."]*

* Bracketed language to be inserted if applicable.

IN WITNESS WHEREOF, the Holder has caused this Investment Representation Letter to be executed this ___ day of _____ 200_.

[Name]

By: _____
Name:
Title:

DIRECTOR DESIGNATION AGREEMENT

THIS DIRECTOR DESIGNATION AGREEMENT, dated as of November 15, 2007 (this “**Agreement**”), is entered into by and between Access Pharmaceuticals, Inc., a Delaware corporation (the “**Company**”) and SCO Capital Partners LLC (“**SCO**”).

WHEREAS, pursuant to the terms of the Preferred Stock and Warrant Purchase Agreement dated as of February 16, 2006, by and among the Company, SCO and the other parties set forth therein as purchasers (the “**Purchase Agreement**”), SCO was given the right to designate two individuals to serve as directors of the Company (the “**Designation Right**”);

WHEREAS, the Designation Right will expire according to its terms if the Secured Convertible Promissory Notes (the “**Notes**”) issued pursuant to the Purchase Agreement no longer remain outstanding;

WHEREAS, the parties anticipate that all of the Notes will be exchanged (the “**Note Exchange**”) into the Series A Cumulative Convertible Preferred Stock, par value \$0.01 per share, of the Company (the “**Series A Stock**”) convertible in to shares of the Company’s common stock, par value \$0.01 per share (the “**Conversion Shares**”) in connection with a proposed new equity financing of the Company and thereafter none of the Notes shall remain outstanding; and

WHEREAS, the parties desire to continue SCO’s right to designate two directors of the Company as more fully set forth herein.

NOW, THEREFORE, in consideration of the mutual agreements contained herein and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereto agree as follows:

1. Director Designees. Effective immediately upon the Note Exchange and continuing for as long as SCO and its Affiliates (as defined below) hold at least 20% of the aggregate number of shares of the Series A Stock issued to SCO and its Affiliates in connection with the Note Exchange or at least 20% of the Conversion Shares issued upon conversion of such Series A Stock, (a) SCO shall have the right, from time to time, to designate two individuals, in the sole discretion of SCO, to serve as directors of the Company (the “**SCO Director Designees**”), (b) the Company shall use its best efforts at all times to cause the number of directors to be fixed at a sufficient number such that at least two positions shall be available for the SCO Director Designees (the “**SCO Board Seats**”), (c) the Company shall use its best efforts to cause the SCO Director Designees to be nominated and elected for service as directors of the Company at each meeting of the Company’s shareholders held for the purpose of electing directors and (d) if at any time, or from time to time, one or more of the SCO Board Seats is or becomes vacant for any reason prior to the next annual meeting of shareholders, the Company shall use its best efforts to cause such vacancy to be filled with an SCO Director Designee.

2. Certain Defined Terms. For purposes of this Agreement, an “**Affiliate**” means any Person (as such term is defined below) that, directly or indirectly through one or more intermediaries, controls or is controlled by or is under common control with a Person, as such terms are used in and construed under Rule 144 under the Securities Act. With respect to any Person, any investment fund or managed account that is managed on a discretionary basis by the same investment manager of such Person will be deemed to be an Affiliate of such Person. A “**Person**” means any individual or corporation, partnership, trust, incorporated or unincorporated association, joint venture, limited liability company, joint stock company, government (or an agency or subdivision of any thereof) or other entity of any kind.

3. Counterparts; Assignment; Amendment. This Agreement may be executed in two or more counterparts, each of which shall be deemed an original but which together shall constitute one and the same instrument. The executed signature pages hereto may be delivered by facsimile or other means of electronic image transmission, such a copy of any signature page hereto shall have the same force and effect as an original thereof. This Agreement may not be assigned without the written consent of each of the parties hereto, provided that SCO may assign its rights under this Agreement to any Affiliate of SCO without the consent of the Company. This Agreement may not be amended without the written approval of each of the parties hereto.

4. Governing Law. This Agreement shall be governed by, and construed in accordance with, the laws of the State of New York (without reference to principles of conflict of laws).

[Signature Page Follows]

IN WITNESS WHEREOF, the parties hereto have executed this Director Designation Agreement as a document under seal as of the date first above written.

Access Pharmaceuticals, Inc.

By: /s/ Stephen B. Thompson
Name: Stephen B. Thompson
Title: Vice President, CFO

SCO Capital Partners LLC

By: /s/ Steven H. Rouhandeh
Name: Steven H. Rouhandeh
Title: Chairman