
UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, DC 20549

FORM S-8

REGISTRATION STATEMENT
UNDER
THE SECURITIES ACT OF 1933

AVENUE THERAPEUTICS, INC.
(Exact name of registrant as specified in its charter)

Delaware
(State or other jurisdiction of incorporation or organization)

47-4113275
(I.R.S. Employer Identification No.)

2 Gansevoort Street, 9th Floor
New York, New York 10014
(Address, including Zip Code, of Principal Executive Offices)

Avenue Therapeutics, Inc. 2015 Incentive Plan
(Full title of the plan)

Lucy Lu, M.D.
President & CEO
Avenue Therapeutics, Inc.
2 Gansevoort Street, 9th Floor
New York, New York 10014
(781) 652-4500
(Name, address and telephone number of agent for service)

Copy to:
Mark F. McElreath, Esq.
Matthew W. Mamak, Esq.
Alston & Bird LLP
90 Park Avenue, 12th Floor
New York, NY 10016
(212) 210-9400

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definitions of "large accelerated filer," "accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Exchange Act. (Check one):

Large accelerated filer
Non-accelerated filer

Accelerated filer
Smaller reporting company
Emerging growth company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 7(a)(2)(B) of the Securities Act.

CALCULATION OF REGISTRATION FEE

Title of securities to be registered	Amount to be registered	Proposed maximum offering price per share	Proposed maximum aggregate offering price	Amount of registration fee
Common Stock, \$0.001 par value	2,000,000 (1)	\$6.55 (2)	\$13,100,000.00 (2)	\$1,518.29

(1) Amount to be registered consists of an aggregate of 2,000,000 shares of Avenue Therapeutics, Inc. Common Stock, par value \$0.001 per share (the “Common Stock”), including any additional shares that may become issuable in accordance with the adjustment and anti-dilution provisions of the Avenue Therapeutics, Inc. 2015 Incentive Plan.

(2) Determined in accordance with Rule 457(h) under the Securities Act of 1933, as amended, the registration fee calculation for these shares is based on the average of the high and low prices of the Common Stock, reported on the Nasdaq Capital Market on August 9, 2017.

PART I
INFORMATION REQUIRED IN THE SECTION 10(a) PROSPECTUS

(a) The documents constituting Part I of this registration statement on Form S-8 (this "Registration Statement") will be delivered to participants in the Avenue Therapeutics, Inc. 2015 Incentive Plan (the "Plan") as specified by Rule 428(b)(1) under the Securities Act of 1933, as amended (the "Securities Act"). These documents and the documents incorporated by reference in this Registration Statement pursuant to Item 3 of Part II of this form, taken together, constitute a prospectus that meets the requirements of Section 10(a) of the Securities Act.

(b) Upon written or oral request, Avenue Therapeutics, Inc. (the "Company") will provide, without charge, the documents incorporated by reference in Item 3 of Part II of this Registration Statement. The documents are incorporated by reference in the Section 10(a) prospectus. The Company will also provide, without charge, upon written or oral request, other documents required to be delivered to employees pursuant to Rule 428(b). Requests for the above-mentioned information should be directed to Alston & Bird LLP, the Company's legal counsel, at the address and telephone number on the cover of this Registration Statement.

PART II
INFORMATION REQUIRED IN THE REGISTRATION STATEMENT

Item 3. Incorporation of Documents by Reference.

The following documents, filed with the Securities and Exchange Commission (the "Commission") by the Company, are incorporated herein by reference:

- (a) The Company's prospectus dated June 26, 2017, filed with the Commission pursuant to Rule 424(b) under the Securities Act, relating to the Registration Statements on Form S-1 (File Nos. 333-217552 and 333-218986), which contains the Registrant's audited financial statements for the latest fiscal year for which such statements have been filed;
- (b) All reports filed by the Company pursuant to Section 13(a) or 15(d) of the Securities Exchange Act of 1934, as amended (the "Exchange Act"); and
- (c) The description of the Common Stock contained in the Form 8-A filed with the Commission on June 14, 2017, pursuant to the Exchange Act, and any amendment or report filed for the purpose of further updating such description.

All reports and other documents subsequently filed by the Company pursuant to Sections 13(a), 13(c), 14 and 15(d) of the Exchange Act, prior to the filing of a post-effective amendment which indicates that all securities offered have been sold or which deregisters all securities that remain unsold, shall be deemed to be incorporated by reference in this Registration Statement and to be a part hereof from the date of filing of such documents.

Any statement contained in a document incorporated or deemed to be incorporated by reference herein shall be deemed to be modified or superseded for purposes of this Registration Statement to the extent that a statement contained herein or in any other subsequently filed document which also is incorporated or deemed to be incorporated by reference herein modifies or supersedes such statement. Any such statement so modified or superseded shall not be deemed, except as so modified or superseded, to constitute a part of this Registration Statement.

Item 4. Description of Securities.

Not applicable.

Item 5. Interests of Named Experts and Counsel.

Not applicable.

Item 6. Indemnification of Directors and Officers.

We have adopted provisions in our Third Amended and Restated Certificate of Incorporation that limit the liability of our directors for monetary damages for breach of their fiduciary duties, except for liability that cannot be eliminated under the Delaware General Corporation Law (“DGCL”). Delaware law provides that directors of a corporation will not be personally liable for monetary damages for breach of their fiduciary duties as directors, except liability for any of the following:

- any breach of their duty of loyalty to the corporation or the stockholder;
- acts or omissions not in good faith or that involve intentional misconduct or a knowing violation of law;
- unlawful payments of dividends or unlawful stock repurchases or redemptions as provided in Section 174 of the DGCL; or
- any transaction from which the director derived an improper personal benefit.

This limitation of liability does not apply to liabilities arising under the federal securities laws and does not affect the availability of equitable remedies such as injunctive relief or rescission.

Our Third Amended and Restated Certificate of Incorporation and our Bylaws also provide that we will indemnify our directors and executive officers and may indemnify our other officers and employees and other agents to the fullest extent permitted by law. We believe that indemnification under our Bylaws covers at least negligence and gross negligence on the part of indemnified parties. Our Bylaws also permit us to secure insurance on behalf of any officer, director, employee or other agent for any liability arising out of his or her actions in this capacity, regardless of whether our Bylaws would permit indemnification. We have secured such insurance.

Item 7. Exemption from Registration Claimed.

Not applicable.

Item 8. Exhibits.

See the Exhibit Index, which is incorporated herein by reference.

Item 9. Undertakings.

(a) The Company hereby undertakes:

(1) To file, during any period in which offers or sales are being made, a post-effective amendment to this registration statement:

(i) To include any prospectus required by Section 10(a)(3) of the Securities Act of 1933;

(ii) To reflect in the prospectus any facts or events arising after the effective date of the registration statement (or the most recent post-effective amendment thereof) which, individually or in the aggregate, represent a fundamental change in the information set forth in the registration statement;

(iii) To include any material information with respect to the plan of distribution not previously disclosed in the registration statement or any material change to such information in the registration statement;

Provided, however, That

(A) Paragraphs (a)(1)(i) and (a)(1)(ii) of this section do not apply if the registration statement is on Form S-8, and the information required to be included in a post-effective amendment by those paragraphs is contained in reports filed with or furnished to the Commission by the Company pursuant to section 13 or section 15(d) of the Securities Exchange Act of 1934 (15 U.S.C. 78m or 78o(d)) that are incorporated by reference in the registration statement;

(2) That, for the purpose of determining any liability under the Securities Act of 1933, each such post-effective amendment shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial *bona fide* offering thereof; and

(3) To remove from registration by means of a post-effective amendment any of the securities being registered which remain unsold at the termination of the offering.

(b) The undersigned Company hereby undertakes that, for purposes of determining any liability under the Securities Act of 1933, each filing of the Company's annual report pursuant to Section 13(a) or 15(d) of the Securities Exchange Act of 1934 (and, where applicable, each filing of an employee benefit plan's annual report pursuant to Section 15(d) of the Securities Exchange Act of 1934) that is incorporated by reference in the registration statement shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial *bona fide* offering thereof.

(c) Insofar as indemnification for liabilities arising under the Securities Act of 1933 may be permitted to directors, officers and controlling persons of the Company pursuant to the foregoing provisions, or otherwise, the Company has been advised that in the opinion of the Securities and Exchange Commission such indemnification is against public policy as expressed in the Act and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by the Company of expenses incurred or paid by a director, officer or controlling person of the Company in the successful defense of any action, suit or proceeding) is asserted by such director, officer or controlling person in connection with the securities being registered, the Company will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by it is against public policy as expressed in the Act and will be governed by the final adjudication of such issue.

(Signatures on following page)

SIGNATURES

The Registrant. Pursuant to the requirements of the Securities Act of 1933, the Company certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-8 and has duly caused this Registration Statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the city of New York, state of New York, on this 14th day of August, 2017.

AVENUE THERAPEUTICS, INC.

By: /s/ Lucy Lu, M.D.

Lucy Lu, M.D.

President, Chief Executive Officer and Director

POWER OF ATTORNEY

KNOW BY ALL MEN BY THESE PRESENT, that each person whose signature appears below constitutes and appoints Lucy Lu, M.D., as true and lawful attorney-in-fact and agent, with full power of substitution, for him and in his name, place and stead, in any and all capacities, to sign any amendments (including post-effective amendments) to this Registration Statement and to file the same, with all exhibits thereto and other documents in connection therewith, with the Securities and Exchange Commission, hereby ratifying and confirming all that said attorney-in-fact, or their substitute or substitutes, may lawfully do or cause to be done by virtue thereof.

Pursuant to the requirements of the Securities Act of 1933, this Registration Statement has been signed by the following persons in the capacities and on the dates indicated.

<u>Signature</u>	<u>Title</u>	<u>Date</u>
<u>/s/ Lindsay A. Rosenwald, M.D.</u> Lindsay A. Rosenwald, M.D.	Executive Chairman of the Board	August 14, 2017
<u>/s/ Lucy Lu, M.D.</u> Lucy Lu, M.D.	President, Chief Executive Officer and Director	August 14, 2017
<u>/s/ David J. Horin</u> David J. Horin	Interim Chief Financial Officer	August 14, 2017
<u>/s/ Michael S. Weiss</u> Michael S. Weiss	Director	August 14, 2017
<u>/s/ Neil Herskowitz</u> Neil Herskowitz	Director	August 14, 2017
<u>/s/ Jeffrey Paley, M.D.</u> Jeffrey Paley, M.D.	Director	August 14, 2017
<u>/s/ Akhtar Samad, M.D., Ph.D.</u> Akhtar Samad, M.D., Ph.D.	Director	August 14, 2017
<u>/s/ Jay Kranzler, M.D., Ph.D.</u> Jay Kranzler, M.D., Ph.D.	Director	August 14, 2017

**EXHIBIT INDEX
TO
REGISTRATION STATEMENT ON FORM S-8**

<u>Exhibit Number</u>	<u>Description</u>
4.1	Third Amended and Restated Certificate of Incorporation of Avenue Therapeutics, Inc., filed as Exhibit 3.1 to the Registrant's Form 10-12G filed on January 12, 2017 (File No. 000-55556) and incorporated herein by reference.
4.2	Bylaws of Avenue Therapeutics, Inc., filed as Exhibit 3.2 to the Registrant's Form 10-12G filed on January 12, 2017 (File No. 000-55556) and incorporated herein by reference.
5.1	Opinion of Alston & Bird LLP (filed herewith).
23.1	Consent of Alston & Bird LLP (included in Exhibit 5.1).
23.2	Consent of Independent Registered Public Accounting Firm (filed herewith).
24.1	Power of Attorney (included on signature page of this registration statement).
99.1	Avenue Therapeutics, Inc. 2015 Incentive Plan, filed as Exhibit 10.7 to the Registrant's Form 10-12G filed on January 12, 2017 (File No. 000-55556) and incorporated herein by reference.

ALSTON & BIRD

90 Park Avenue
New York, NY 10016
212-210-9400 | Fax: 212-210-9444

Matthew W. Mamak

Direct Dial: 212-210-1256

Email: matthew.mamak@alston.com

August 14, 2017

Avenue Therapeutics, Inc.
2 Gansevoort Street, 9th Floor
New York, NY 10014

Re: Registration Statement on Form S-8

Ladies and Gentlemen:

We are acting as counsel to Avenue Therapeutics, Inc., a Delaware corporation (the “Company”) in connection with the registration statement (the “Registration Statement”) on Form S-8 filed today by the Company with the Securities and Exchange Commission (the “Commission”) under the Securities Act of 1933, as amended (the “Securities Act”), covering 2,000,000 shares of the Company’s common stock, \$0.001 par value per share (the “Shares”), which may be issued by the Company upon the grant, exercise, settlement or purchase of awards pursuant to the Avenue Therapeutics, Inc. 2015 Incentive Plan (the “2015 Plan”). This opinion is furnished to you at your request in accordance with the requirements of Item 8 of the Commission’s Form S-8 and Item 601(b)(5) of Regulation S-K promulgated under the Securities Act.

We have examined the Third Amended and Restated Certificate of Incorporation of the Company, the Bylaws of the Company, the 2015 Plan, records of proceedings of the Board of Directors of the Company (the “Board of Directors”), or committees thereof, and records of proceedings of the stockholders, deemed by us to be relevant to this opinion letter and the Registration Statement. We also have made such further legal and factual examinations and investigations as we deemed necessary for purposes of expressing the opinion set forth herein.

As to certain factual matters relevant to this opinion letter, we have relied conclusively upon originals or copies, certified or otherwise identified to our satisfaction, of such records, agreements, documents and instruments, including certificates or comparable documents of officers of the Company and of public officials, as we have deemed appropriate as a basis for the opinion hereinafter set forth. Except to the extent expressly set forth herein, we have made no independent investigations with regard to matters of fact, and, accordingly, we do not express any opinion as to matters that might have been disclosed by independent verification.

Our opinion set forth below is limited to the General Corporation Law of the State of Delaware, applicable provisions of the Constitution of the State of Delaware and reported judicial decisions interpreting such General Corporation Law and Constitution that, in our professional judgment, are normally applicable to transactions of the type contemplated by the 2015 Plan, and we do not express any opinion herein concerning any other laws.

This opinion letter is provided for use in connection with the transactions contemplated by the Registration Statement and may not be used, circulated, quoted or otherwise relied upon for any other purpose without our express written consent. The only opinion rendered by us consists of those matters set forth in the sixth paragraph hereof, and no opinion may be implied or inferred beyond the opinion expressly stated. This opinion letter is rendered as of the date hereof and we make no undertaking and expressly disclaim any duty to supplement or update the opinions rendered herein, if, after the date hereof, facts or circumstances come to our attention or changes in the law occur which could affect such opinions. We note specifically that the Shares may be issued from time to time hereafter, and our opinion is limited to the applicable laws, including the related rules and regulations, as in effect on the date hereof.

Based on the foregoing, it is our opinion that the Shares to be issued under the 2015 Plan are duly authorized, and, when issued by the Company in accordance with the terms of the 2015 Plan, will be validly issued, fully paid and non-assessable.

We consent to the filing of this opinion letter as an exhibit to the Registration Statement. In giving such consent, we do not thereby admit that we are within the category of persons whose consent is required under Section 7 of the Securities Act or the rules and regulations of the Commission thereunder.

ALSTON & BIRD

By: /s/ Matthew W. Mamak
Matthew W. Mamak
Partner



Tel: 617-422-0700
Fax: 617-422-0909
www.bdo.com

Two International Place
Boston, MA 02110

Consent of Independent Registered Public Accounting Firm

Avenue Therapeutics, Inc.
New York, New York

We hereby consent to the incorporation by reference in the Prospectus constituting a part of this Registration Statement of our report dated March 6, 2017, except for Note 11 which is as of June 22, 2017, relating to the consolidated financial statements of Avenue Therapeutics, Inc., appearing in the Company's Annual Report on Form 10-K for the year ended December 31, 2016. Our report contains an explanatory paragraph regarding the Company's ability to continue as a going concern.

BDO USA, LLP
Boston, Massachusetts
August 15, 2017

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