# UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

## FORM S-1 REGISTRATION STATEMENT

Under
The Securities Act of 1933

## INTELLIA THERAPEUTICS, INC.

(Exact name of registrant as specified in its charter)

Delaware (State or other jurisdiction of incorporation or organization) 2836 (Primary Standard Industrial Classification Code Number) 36-4785571 (I.R.S. Employer Identification Number)

130 Brookline Street, Suite 201 Cambridge, MA 02139 (857) 285-6200

(Address, including zip code, and telephone number, including area code, of registrant's principal executive offices)

Nessan Bermingham, Ph.D.
Founder, President and Chief Executive Officer
130 Brookline Street, Suite 201
Cambridge, Massachusetts 02139
(857) 285-6200

(Name, address, including zip code, and telephone number, including area code, of agent for service)

Arthur R. McGivern, Esq. William D. Collins, Esq. Goodwin Procter LLP Exchange Place Boston, Massachusetts 02109 (617) 570-1000 Copies to:
José E. Rivera, Esq.
Chief Operating Officer and Chief Legal Officer
Intellia Therapeutics, Inc.
130 Brookline Street, Suite 201
Cambridge, Massachusetts 02139
(857) 285-6200

Peter N. Handrinos, Esq. Brandon J. Bortner, Esq. Latham & Watkins LLP John Hancock Tower 200 Clarendon Street Boston, Massachusetts 02116 (617) 948-6000

Approximate date of commencement of proposed sale to the public: As soon as practicable after the effective date of this registration statemen
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If any of the securities being registered on this Form are to be offered on a delayed or continuous basis pursuant to Rule 415 under the Securities Act of 1933, as amended, check the following box.  $\Box$ 

If this Form is filed to register additional securities for an offering pursuant to Rule 462(b) under the Securities Act, please check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering. 

| Image: Proposition of the same o

If this Form is a post-effective amendment filed pursuant to Rule 462(c) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

	ctive amendment filed pursuant to Rule $462(d)$ under the Securities Act, checumber of the earlier effective registration statement for the same offering. $\Box$	k the following box and list the Sec	curities Act	
•	whether the registrant is a large accelerated filer, an accelerated filer, a non-acelerated filer," "accelerated filer" and "smaller reporting company" in Rule 1	, .	g company. See	e the
Large Accelerated Filer		Accelerated File	er	
Non-Accelerated Filer	☑ (Do not check if a smaller reporting company)	Smaller Reporting	ng Company	
	CALCULATION OF REGISTRATION FEI	E		
Common Stock, par valu	Proposed Maximum Aggregate Offering Price \$4,200,000,00(1)	Amount o Registration \$422.94(2	Fee	
(1) Based on the publ Registration State under the Securiti registered, which that the Registran (2) Pursuant to Rule 4 of the maximum a	ic offering price. The registrant previously registered securities at an aggrega ment on Form S-1 (File No. 333-210689), which was declared effective on M es Act, an additional amount of securities having a proposed maximum aggregate includes shares issuable upon exercise of the underwriters' option to purchase the previously registered on the Registration Statement on Form S-1 (File No. 3 457(o) of the rules and regulations under the Securities Act of 1933, as amend ggregate offering price and the number of securities being registered has been a Statement shall become effective upon filing with the Securities and Exchange in the securities in the securities in the securities and Exchange in the securities in the securities and Exchange in the securities in the securities and Exchange in the securities in	ay 5, 2016. In accordance with Rule egate offering price of \$4,200,000.0 e additional shares and does not inc 33-210689). led, the registration fee has been cal n omitted.	0,000,000 on a e 462(b) promul 0 is hereby clude the securit	lgated ties basis

### EXPLANATORY NOTE AND INCORPORATION BY REFERENCE

This registration statement is being filed with respect to the registration of additional shares of common stock, par value \$0.0001 per share, of Intellia Therapeutics, Inc., a Delaware corporation, pursuant to Rule 462(b) under the Securities Act of 1933, as amended. The contents of the earlier registration statement on Form S-1 (File No. 333-210689), which was declared effective by the Commission on May 5, 2016, are incorporated in this registration statement by reference.

The required opinion and consents are listed on an Exhibit Index attached hereto and filed herewith.

#### **SIGNATURES**

Pursuant to the requirements of the Securities Act of 1933, the registrant has duly caused this Registration Statement on Form S-1 to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Cambridge, Commonwealth of Massachusetts, on the 5th day of May, 2016.

#### INTELLIA THERAPEUTICS, INC.

By: /s/ Nessan Bermingham

Nessan Bermingham, Ph.D. Founder, President and Chief Executive Officer

Pursuant to the requirements of the Securities Act of 1933, as amended, this Registration Statement on Form S-1 has been signed by the following person in the capacities and on the date indicated.

<u>Name</u>	<u>Title</u>	<u>Date</u>
/s/ Nessan Bermingham Nessan Bermingham, Ph.D.	Founder, President, Chief Executive Officer and Director (Principal Executive Officer)	May 5, 2016
* Sapna Srivastava, Ph.D.	Chief Financial and Strategy Officer  (Principal Financial Officer)	May 5, 2016
* Nicole Heifner	Chief Accounting Officer (Principal Accounting Officer)	May 5, 2016
* Caroline Dorsa	Director	May 5, 2016
* Jean François Formela, M.D.	Director	May 5, 2016
* Carl L. Gordon, Ph.D.	Director	May 5, 2016
* Rachel Haurwitz, Ph.D.	Director	May 5, 2016
* John M. Leonard, M.D.	Chief Medical Officer and Director	May 5, 2016
* Pursuant to Power of Attorney		
By: /s/ Nessan Bermingham  Nessan Bermingham, Ph.D.  Atternay in Fact		

Attorney in Fact

### EXHIBIT INDEX

Exhibit No.	Exhibit Index
5.1	Opinion of Goodwin Procter LLP
23.1	Consent of Deloitte & Touche LLP, Independent Registered Public Accounting Firm
23.2	Consent of Goodwin Procter LLP (included in Exhibit 5.1)
24.1*	Power of Attorney
24.2**	Power of Attorney for Perry Karsen

Previously filed on the signature page to the Registrant's Registration Statement on Form S-1, as amended (File No. 333-210689), originally filed with the Securities and Exchange Commission on April 11, 2016 and incorporated by reference herein.

Previously filed as Exhibit 24.2 to the Registrant's Registration Statement on Form S-1, as amended (File No. 333-210689), originally filed with the Securities and Exchange Commission on April 27, 2016 and incorporated by reference herein.

Intellia Therapeutics, Inc. 130 Brookline Street, Suite 201 Cambridge, MA 02139

Re: Securities Being Registered under Registration Statement on Form S-1

#### Ladies and Gentlemen:

We have acted as counsel to you in connection with your filing of (i) a Registration Statement on Form S-1 (File No. 333-210689) (the "Initial Registration Statement") pursuant to the Securities Act of 1933, as amended (the "Securities Act") and (ii) a second Registration Statement on Form S-1 filed pursuant to Rule 462(b) promulgated under the Securities Act (the "462(b) Registration Statement", and together with the Initial Registration Statement, the "Registration Statement"). This opinion letter is furnished to you in connection with your filing of the 462(b) Registration Statement, relating to the registration of the offering by Intellia Therapeutics, Inc., a Delaware corporation (the "Company"), of up to 1,150,000 shares (the "Shares") of the Company's Common Stock, \$0.0001 par value per share, including Shares purchasable by the underwriters upon their exercise of an option granted to the underwriters by the Company. The Shares are being sold to the several underwriters named in, and pursuant to, an underwriting agreement among the Company and such underwriters (the "Underwriting Agreement").

We have reviewed such documents and made such examination of law as we have deemed appropriate to give the opinions set forth below. We have relied, without independent verification, on certificates of public officials and, as to matters of fact material to the opinions set forth below, on certificates of officers of the Company.

The opinion set forth below is limited to the Delaware General Corporation Law (which includes reported judicial decisions interpreting the Delaware General Corporation Law).

Based on the foregoing, we are of the opinion that the Shares have been duly authorized and, when the Shares have been issued and delivered against payment in accordance with the terms approved by a duly authorized committee of the Board of Directors, the Shares will be validly issued, fully paid and non-assessable.

We hereby consent to the inclusion of this opinion as Exhibit 5.1 to the 462(b) Registration Statement and to the references to our firm under the caption "Legal Matters" in the Initial Registration Statement. In giving our consent, we do not admit that we are in the category of persons whose consent is required under Section 7 of the Securities Act or the rules and regulations thereunder.

Very truly yours,

/s/ GOODWIN PROCTER LLP

GOODWIN PROCTER LLP

#### CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We consent to the incorporation by reference in this Registration Statement on Form S-1 of our report dated March 16, 2016 (April 25, 2016 as to the effects of the reverse split discussed in Note 2) relating to the financial statements of Intellia Therapeutics, Inc. (successor to Intellia Therapeutics, LLC) and subsidiaries, and incorporated by reference in the Prospectus included in Registration Statement No. 333-210689, as amended.

We also consent to the reference to us under the heading "Experts" in such Prospectus.

/s/ Deloitte & Touche LLP

Boston, Massachusetts May 5, 2016