# UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

# FORM S-8

#### **REGISTRATION STATEMENT UNDER THE SECURITIES ACT OF 1933**

# **IONIS PHARMACEUTICALS, INC.**

(Exact name of registrant as specified in its charter)

**Delaware** (State of Incorporation) **33-0336973** (I.R.S. Employer Identification No.)

2855 Gazelle Court Carlsbad, CA 92010 (Address of principal executive offices)

**Amended and Restated Ionis Pharmaceuticals, Inc. 2011 Equity Incentive Plan** (Full title of the plan)

**Brett Monia** 

Chief Operating Officer IONIS PHARMACEUTICALS, INC. 2855 Gazelle Court Carlsbad, California 92010 (760) 931-9200

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

Copies to: Patrick R. O'Neil, Esq. Senior Vice President, Legal, General Counsel and Corporate Secretary IONIS PHARMACEUTICALS, INC. 2855 Gazelle Court Carlsbad, California 92010 (760) 931-9200

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

Large accelerated filer  $\boxtimes$  Non-accelerated filer  $\square$ 

Accelerated filer  $\Box$ Smaller reporting company  $\Box$ Emerging growth company  $\Box$ 

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

		Proposed Maximum	Proposed Maximum	
Title of Securities	Amount to be Registered	Offering	Aggregate	Amount of
to be Registered	(1,2)	Price per Share (3)	Offering Price (3)	<b>Registration Fee</b>
Common Stock, par value \$.001 per share	7,000,000 shares	\$62.57	\$437,990,000.00	\$53,084.39

- (1) In accordance with Rule 416 under the Securities Act of 1933, as amended (the "Securities Act"), this Registration Statement on Form S-8 (this "Registration Statement") shall be deemed to cover any additional securities that may from time to time be offered or issued by Ionis Pharmaceuticals, Inc. (the "Registrant") to prevent dilution resulting from stock splits, stock dividends or similar transactions.
- (2) Includes 7,000,000 shares issuable pursuant to the Registrant's Amended and Restated 2011 Equity Incentive Plan (the "2011 Plan").
- (3) Estimated solely for the purpose of calculating the amount of the registration fee pursuant to Rule 457(c) and Rule 457(h) of the Securities Act. The price per share and the aggregate offering price are calculated on the basis of \$62.57, the average of the high and low sales prices of Registrant's Common Stock on August 5, 2019, as reported on the NASDAQ Global Market for the shares subject to the 2011 Plan.

## INCORPORATION OF CERTAIN DOCUMENTS BY REFERENCE

Pursuant to General Instruction E of Form S-8, this Registration Statement hereby incorporates by reference the contents of the Registrant's <u>Registration Statement on Form S-8 filed with the Commission on August 9, 2017 (Registration No. 333-219801)</u>, the Registrant's <u>Registration Statement on Form S-8 filed with the Commission on November 9, 2015 (Registration No. 333-207900)</u> and the Registrant's <u>Registration Statement on Form S-8 filed with the Commission on August 6, 2013 (Registration No. 333-207900)</u> and the Registrant's <u>Registration Statement on Form S-8 filed with the Commission on August 6, 2013 (Registration No. 333-207900)</u>.

# INTERESTS OF NAMED EXPERTS AND COUNSEL

The validity of the issuance of the common stock offered in this Registration Statement will be passed upon for Ionis by Patrick R. O'Neil, Senior Vice President, Legal, General Counsel and Corporate Secretary of Ionis. Mr. O'Neil holds, or has the right to acquire under Ionis' 2011 Plan, an aggregate of less than 1% of Ionis' common stock.

## INDEMNIFICATION OF DIRECTORS AND OFFICERS

Under Section 145 of the Delaware General Corporation Law (the "DGCL"), we have broad powers to indemnify our directors and officers against liabilities they may incur in such capacities, including liabilities under the Securities Act.

Our certificate of incorporation and bylaws include provisions to (i) eliminate the personal liability of its directors for monetary damages resulting from breaches of their fiduciary duty to the extent permitted by Section 102(b)(7) of the DGCL and (ii) require us to indemnify our directors and officers to the fullest extent permitted by Section 145 of the DGCL, including circumstances in which indemnification is otherwise discretionary. Pursuant to Section 145 of the DGCL, a corporation generally has the power to indemnify its present and former directors, officers, employees and agents against expenses incurred by them in connection with any suit to which they are, or are threatened to be made, a party by reason of their serving in such positions so long as they acted in good faith and in a manner they reasonably believed to be in, or not opposed to, the best interest of the corporation, and with respect to any criminal action, they had no reasonable cause to believe their conduct was unlawful. We believe that these provisions are necessary to attract and retain qualified persons as directors and officers. These provisions do not eliminate the directors' duty of care, and, in appropriate circumstances, equitable remedies such as injunctive or other forms of non-monetary relief will remain available under Delaware law. In addition, each director will continue to be subject to liability for breach of the directors' duty of loyalty to us, for acts or omissions not in good faith or involving intentional misconduct, for knowing violations of law, for acts or omissions that the director believes to be contrary to the best interests of Ionis or our stockholders, for any transaction from which the director derived an improper personal benefit, for acts or omissions involving a reckless disregard for the directors' duty to Ionis or our stockholders when the director was aware or should have been aware of a risk of serious injury to Ionis or our stockholders, for acts or omissions that constitute an unexcused pattern of inattention that amounts to an abdication of the director's duty to Ionis or our stockholders, for improper transactions between the director and us and for improper distributions to stockholders and loans to directors and officers. The provision also does not affect a director's responsibilities under any other law, such as the federal securities law or state or federal environmental laws.

We have entered into indemnity agreements with each of our directors and executive officers that require us to indemnify such persons against expenses, judgments, fines, settlements and other amounts incurred (including expenses of a derivative action) in connection with any proceeding, whether actual or threatened, to which any such person may be made a party by reason of the fact that such person is or was a director or an executive officer of Ionis or any of our affiliated enterprises, provided such person acted in good faith and in a manner such persons reasonably believed to be in, or not opposed to, the best interests of Ionis and, with respect to any criminal proceeding, has no reasonable cause to believe his conduct was unlawful. The indemnification agreements also set forth procedures that will apply in the event of a claim for indemnification thereunder.

We have an insurance policy covering our officers and directors with respect to certain liabilities, including liabilities arising under the Securities Act or otherwise.

#### EXHIBITS

#### Exhibit Number

5.1	Opinion of Patrick R. O'Neil
23.1	Consent of Independent Registered Public Accounting Firm
23.2	Consent of Patrick R. O'Neil. Reference is made to Exhibit 5.1
24.1	Power of Attorney is contained on the signature pages
99.1	Amended and Restated Ionis Pharmaceuticals, Inc. 2011 Equity Incentive Plan (1)
99.2	Form of Option Agreement for Options granted under the Amended and Restated Ionis Pharmaceuticals, Inc. 2011 Equity Incentive Plan (2)
99.3	Form of Restricted Stock Unit Agreement for Restricted Stock Units granted under the Amended and Restated Ionis Pharmaceuticals, Inc. 2011 Equity Incentive Plan (3)

(1) Filed as an appendix to the Registrant's Notice of 2019 Annual Meeting of Stockholders and Proxy Statement filed with the SEC on April 26, 2019, and incorporated herein by reference.

(2) Filed as an exhibit to the Registrant's Quarterly Report on Form 10-Q for the quarter ended September 30, 2015, filed with the SEC on November 9, 2015, and incorporated herein by reference.

(3) Filed as an exhibit to the Registrant's Registration Statement on Form S-8 filed with the SEC on August 8, 2011, and incorporated herein by reference.

#### UNDERTAKINGS

(a) The undersigned Registrant 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;

(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. Notwithstanding the foregoing, any increase or decrease in volume of securities offered (if the total dollar value of securities offered would not exceed that which was registered) and any deviation from the low or high end of the estimated maximum offering range may be reflected in the form of prospectus filed with the Commission pursuant to Rule 424(b) if, in the aggregate, the changes in volume and price represent no more than a 20% change in the maximum aggregate offering price set forth in the "Calculation of Registration Fee" table in the effective 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 paragraphs (a)(1)(i) and (a)(1)(ii) of this section do not apply if 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 Registrant pursuant to section 13 or section 15(d) of the Securities Exchange Act of 1934 (the "Exchange Act") that are incorporated by reference in the Registration Statement; and

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

(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.

(4) That, for the purpose of determining liability of the Registrant under the Securities Act to any purchaser in the initial distribution of the securities: The undersigned Registrant undertakes that in a primary offering of securities of the undersigned Registrant pursuant to this Registration Statement, regardless of the underwriting method used to sell the securities to the purchaser, if the securities are offered or sold to such purchaser by means of any of the following communications, the undersigned Registrant will be a seller to the purchaser and will be considered to offer or sell such securities to such purchaser:

(i) Any preliminary prospectus or prospectus of the undersigned Registrant relating to the offering required to be filed pursuant to Rule 424;

(ii) Any free writing prospectus relating to the offering prepared by or on behalf of the undersigned Registrant or used or referred to by the undersigned Registrant;

(iii) The portion of any other free writing prospectus relating to the offering containing material information about the undersigned Registrant or its securities provided by or on behalf of the undersigned Registrant; and

(iv) Any other communication that is an offer in the offering made by the undersigned Registrant to the purchaser.

(b) The undersigned Registrant hereby undertakes that, for purposes of determining any liability under the Securities Act, each filing of the Registrant's annual report pursuant to Section 13(a) or Section 15(d) of the Exchange Act (and, where applicable, each filing of an employee benefit plan's annual report pursuant to Section 15(d) of the Exchange Act) 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 may be permitted to directors, officers and controlling persons of the Registrant pursuant to the foregoing provisions, or otherwise, the Registrant has been advised that in the opinion of the Securities and Exchange Commission such indemnification is against public policy as expressed in the Securities Act and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by the Registrant of expenses incurred or paid by a director, officer or controlling person of the Registrant 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 Registrant 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 Securities Act and will be governed by the final adjudication of such issue.

#### **SIGNATURES**

Pursuant to the requirements of the Securities Act of 1933, as amended, the Registrant 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 Carlsbad, State of California, on August 8, 2019.

IONIS PHARMACEUTICALS, INC.

By:	/s/ Brett Monia
Bret	t Monia
Chie	ef Operating Officer

#### **POWER OF ATTORNEY**

KNOW ALL PERSONS BY THESE PRESENTS, that each person whose signature appears below constitutes and appoints Stanley T. Crooke and Brett Monia, and each or any one of them, his or her true and lawful attorney-in-fact and agent, with full power of substitution and resubstitution, for him or her and in his or her name, place and stead, in any and all capacities, to sign any and all 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, granting unto said attorneys-in-fact and agents, and each of them, full power and authority to do and perform each and every act and thing requisite and necessary to be done in connection therewith, as fully to all intents and purposes as he or she might or could do in person, hereby ratifying and confirming all that said attorneys-in-fact and agents, or any of them, or their or his or her substitutes or substitute, may lawfully do or cause to be done by virtue hereof.

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

Signature	Title	Date
/s/ Stanley T. Crooke Stanley T. Crooke	Chairman of the Board, Chief Executive Officer and President (Principal Executive Officer)	August 8, 2019
/s/ Elizabeth Hougen Elizabeth Hougen	Chief Financial Officer (Principal Financial Officer)	August 8, 2019
/s/ Brett Monia Brett Monia	Chief Operating Officer and Director	August 8, 2019
/s/ Breaux B. Castleman Breaux B. Castleman	Director	August 8, 2019
/s/ Spencer R. Berthelsen Spencer R. Berthelsen	Director	August 8, 2019
/s/ Joseph Klein, III Joseph Klein, III	Director	August 8, 2019

/s/ Joseph Loscalzo Joseph Loscalzo	Director	August 8, 2019
/s/ Frederick T. Muto Frederick T. Muto	Director	August 8, 2019
/s/ Joseph H. Wender Joseph H. Wender	Director	August 8, 2019
/s/ B. Lynne Parshall B. Lynne Parshall	Director	August 8, 2019
/s/ Peter Reikes Peter Reikes	Director	August 8, 2019
/s/ Michael Hayden Michael Hayden	Director	August 8, 2019
/s/ Joan Herman Joan Herman	Director	August 8, 2019

# EXHIBIT INDEX

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August 8, 2019

Ionis Pharmaceuticals, Inc. 2855 Gazelle Court Carlsbad, CA 92010

Ladies and Gentlemen:

You have requested my opinion with respect to certain matters in connection with the filing by Ionis Pharmaceuticals, Inc. (the "Company") of a Registration Statement on Form S-8 (the "Registration Statement") with the Securities and Exchange Commission, covering the offering of an additional 7,000,000 shares of the Company's Common Stock, \$.001 par value (the "Shares"), of which, 7,000,000 Shares are issuable pursuant to its Amended and Restated 2011 Equity Incentive Plan (the "2011 Plan") as described in the Registration Statement.

In connection with this opinion, I have examined and relied upon the Registration Statement, the Company's Restated Certificate of Incorporation, as amended, and Bylaws and the originals or copies certified to my satisfaction, of such records, documents, certificates, memoranda and other instruments as in my judgment are necessary or appropriate to enable me to render the opinion expressed below.

On the basis of the foregoing, and in reliance thereon, I am of the opinion that the Shares, when issued and sold in accordance with the 2011 Plan and related prospectuses, will be validly issued, fully paid and nonassessable.

I consent to the reference to myself under the caption "Interests of Named Experts and Counsel" in the Registration Statement and to the filing of this opinion as an exhibit to the Registration Statement.

Very truly yours,

/s/ Patrick R. O'Neil

Patrick R. O'Neil Senior Vice President, Legal, General Counsel and Corporate Secretary

## **Consent of Independent Registered Public Accounting Firm**

We consent to the incorporation by reference in the Registration Statement (Form S-8) pertaining to the Amended and Restated 2011 Equity Incentive Plan of Ionis Pharmaceuticals, Inc. of our reports dated March 1, 2019, with respect to the consolidated financial statements of Ionis Pharmaceuticals, Inc. and the effectiveness of internal control over financial reporting of Ionis Pharmaceuticals, Inc. included in its Annual Report (Form 10-K) for the year ended December 31, 2018, filed with the Securities and Exchange Commission.

/s/ Ernst & Young LLP

San Diego, California August 8, 2019