## SEC Form 4

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# FORM 4

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

| Check this box if no longer subject to |
|--|
| Section 16. Form 4 or Form 5           |
| obligations may continue. See          |
| Instruction 1(b).                      |

### STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

| OMB APPROVAL             |           |  |  |  |  |  |  |  |  |
|--------------------------|-----------|--|--|--|--|--|--|--|--|
| OMB Number:              | 3235-0287 |  |  |  |  |  |  |  |  |
| Estimated average burden |           |  |  |  |  |  |  |  |  |
| hours per response:      | 0.5       |  |  |  |  |  |  |  |  |

| 1. Name and Address of Reporting Person*<br>CROOKE STANLEY T |          |          | 2. Issuer Name and Ticker or Trading Symbol<br>IONIS PHARMACEUTICALS INC [ IONS | 5. Relationship of Reporting Person(s) to Issuer<br>(Check all applicable) |                                   |                       |  |  |  |
|--|----------|----------|---|--|-----------------------------------|-----------------------|--|--|--|
| CROOKE S.  | IANLEY I | -        |   | X  | Director                          | 10% Owner             |  |  |  |
| (Last)   | (First)  | (Middle) |   | X  | Officer (give title below)        | Other (specify below) |  |  |  |
| C/O IONIS DHADMACEUTICALS INC                                |          | ( )      | 3. Date of Earliest Transaction (Month/Day/Year)<br>09/27/2016                  |  | Chairman an                       | d CEO                 |  |  |  |
| 2855 GAZELLI   | E COURT  |          |   |  |                                   |                       |  |  |  |
| (Street)   |          |          | 4. If Amendment, Date of Original Filed (Month/Day/Year)                        | 6. Indi<br>Line)   | ividual or Joint/Group Filir      | ng (Check Applicable  |  |  |  |
| CARLSBAD   | CA       | 92010    |   | X  | Form filed by One Re              | porting Person        |  |  |  |
|  |          | 52010    |   |  | Form filed by More that<br>Person | an One Reporting      |  |  |  |
| (Citv)   | (State)  | (Zip)    |   |  |                                   |                       |  |  |  |

#### Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

| 1. Title of Security (Instr. 3) | 2. Transaction<br>Date<br>(Month/Day/Year) | 2A. Deemed<br>Execution Date,<br>if any<br>(Month/Day/Year) |                         |   | 4. Securities /<br>Disposed Of ( |                     |            | 5. Amount of<br>Securities<br>Beneficially<br>Owned Following<br>Reported | 6. Ownership<br>Form: Direct<br>(D) or Indirect<br>(I) (Instr. 4) | 7. Nature<br>of Indirect<br>Beneficial<br>Ownership<br>(Instr. 4) |
|---------------------------------|--|---|-------------------------|---|----------------------------------|---------------------|------------|---|---|---|
|                                 |  |   | Code                    | v | Amount                           | (A) or<br>(D) Price |            | Transaction(s)<br>(Instr. 3 and 4)  |   |   |
| Common Stock                    | 09/27/2016                                 | 09/27/2016  | <b>M</b> <sup>(1)</sup> |   | 20,000 <sup>(1)</sup>            | A                   | \$10.29    | 45,029  | D   |   |
| Common Stock                    | 09/27/2016                                 | 09/27/2016  | <b>S</b> <sup>(1)</sup> |   | 20,000 <sup>(1)</sup>            | D                   | \$36.02(2) | 25,029  | D   |   |
| Common Stock                    | 09/27/2016                                 | 09/27/2016  | M <sup>(3)</sup>        |   | 2,000 <sup>(3)</sup>             | A                   | \$10.29    | 4,170   | I   | By Wife   |
| Common Stock                    | 09/27/2016                                 | 09/27/2016  | S <sup>(3)</sup>        |   | 2,000 <sup>(3)</sup>             | D                   | \$36.05    | 2,170   | Ι   | By Wife   |
| Common Stock                    |  |   |                         |   |                                  |                     |            | 725,391   | Ι   | By Trust  |
|                                 |  |   |                         |   |                                  |                     |            |   |   |   |

### Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

|   | (0.9.) parts, cance, character, control and coordinately              |  |   |                              |   |       |        |  |                    |   |  |   |  |  |  |
|---|---|--|---|------------------------------|---|-------|--------|--|--------------------|---|--|---|--|--|--|
| 1. Title of<br>Derivative<br>Security<br>(Instr. 3) | 2.<br>Conversion<br>or Exercise<br>Price of<br>Derivative<br>Security | 3. Transaction<br>Date<br>(Month/Day/Year) | 3A. Deemed<br>Execution Date,<br>if any<br>(Month/Day/Year) | 4.<br>Transa<br>Code (<br>8) |   | of Ex |        | 6. Date Exercisable and<br>Expiration Date<br>(Month/Day/Year) |                    | 7. Title and Amount<br>of Securities<br>Underlying<br>Derivative Security<br>(Instr. 3 and 4) |  | 8. Price of<br>Derivative<br>Security<br>(Instr. 5) | 9. Number of<br>derivative<br>Securities<br>Beneficially<br>Owned<br>Following<br>Reported<br>Transaction(s)<br>(Instr. 4) | 10.<br>Ownership<br>Form:<br>Direct (D)<br>or Indirect<br>(I) (Instr. 4) | 11. Nature<br>of Indirect<br>Beneficial<br>Ownership<br>(Instr. 4) |
|   |   |  |   | Code                         | v | (A)   | (D)    | Date<br>Exercisable  | Expiration<br>Date | Title   | Amount<br>or<br>Number<br>of<br>Shares |   |  |  |  |
| Empoyee<br>Stock<br>Option<br>(right to<br>buy)     | \$10.29   | 09/27/2016                                 | 09/27/2016  | М                            |   |       | 20,000 | 01/03/2015   | 01/02/2018         | Common<br>Stock   | 20,000                                 | \$0   | 26,259   | D  |  |
| Employee<br>Stock<br>Option<br>(right to<br>buy)    | \$10.29   | 09/27/2016                                 | 09/27/2016  | М                            |   |       | 2,000  | 01/03/2015   | 01/02/2018         | Common<br>Stock   | 2,000                                  | \$0   | 9,500  | I  | By wife  |

#### **Explanation of Responses:**

1. Acquired as a result of exercising a stock option. The purchase and sale reported on this Form 4 was effective pursuant to a Rule 10b5-1 Trading Plan adopted by the reporting person on 9/21/15. 2. The sale was a result of shares owned. The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$35.69 to \$36.40, inclusive. The reporting person undertakes to provide to Ionis Pharmaceuticals, Inc., any security holder of Ionis Pharmaceuticals, Inc. or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the ranges set forth in footnote (2) on this Form 4.

3. Acquired as a result of exercising a stock option. The purchase and sale reported on this Form 4 was effective pursuant to a Rule 10b5-1 Trading Plan adopted by the reporting person's wife on 9/21/15. Remarks:

/s/Stanley T. Crooke

\*\* Signature of Reporting Person

09/29/2016 Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

\* If the form is filed by more than one reporting person, see Instruction 4 (b)(v).

\*\* Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.