Common Stock

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FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

	Washingto	on, D.C. 20549	
STATEMENT	OF CHANGES	IN BENEFICIAL	OWNERSHIP

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

(Instr. 3 and 4)

24,642

14,642

2,297

1,297

725,391

D

D

I

Ι

I

By wife

By wife

By Trust

\$10.29

\$61.05

\$9.22

\$61.05

D

A

D

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

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

1. Name and Address of Reporting Person* CROOKE STANLEY T				2. Issuer Name and Ticker or Trading Symbol IONIS PHARMACEUTICALS INC [IONS]								tionship of Reporting all applicable) Director	, ,	Person(s) to Issuer 10% Owner	
(Last) C/O IONIS PHAI 2855 GAZELLE	(First) RMACEUTICALS COURT	(Middle)		3. Date (of Earliest Transac 2016	tion (Mo	onth/Da	ay/Year)		-	X	Officer (give title below) Chairman	Othe below n and CEO	r (specify v)	
(Street) CARLSBAD (City)	CA (State)	92010 (Zip)	4.	4. If Amendment, Date of Original Filed (Month/Day/Year)							Indiv X	lividual or Joint/Group Filing (Check Applicable Line) Form filed by One Reporting Person Form filed by More than One Reporting Person			
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned															
Date			2. Transaction Date (Month/Day/		2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8) 4. Securities Acquired (A) of Disposed Of (D) (Instr. 3, 4) Code V Amount (A) or Pi				Securities Beneficially Owned Following Reported		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		

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

 $M^{(3)}$

S⁽³⁾

M⁽⁴⁾

S⁽⁴⁾

10,000(3)

10,000(3)

1,000(4)

1,000(4)

01/04/2016

01/04/2016

01/04/2016

01/04/2016

01/04/2016

01/04/2016

01/04/2016

01/04/2016

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1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transa Code (8)		5. Number Derivative Securities Acquired Disposed (Instr. 3,	re es d (A) or d of (D)	Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)		10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares		Transaction(s) (Instr. 4)		
Employee Stock Option (right to buy)	\$61.68	01/04/2016	01/04/2016	A		195,182		01/04/2017 ⁽¹⁾	01/03/2023	Common Stock	195,182	\$0	195,182	D	
Employee Stock Option (right to buy)	\$61.68	01/04/2016	01/04/2016	A		8,000		01/04/2017 ⁽²⁾	01/03/2023	Common Stock	8,000	\$0	8,000	I	By Wife
Employee Stock Option (right to buy)	\$10.29	01/04/2016	01/04/2016	М			10,000	01/03/2015	01/02/2018	Common Stock	10,000	\$0	91,259	D	
Employee Stock Option (right to buy)	\$9.22	01/04/2016	01/04/2016	М			1,000	07/19/2014	07/18/2017	Common Stock	1,000	\$0	1,000	I	By wife

Explanation of Responses:

- 1. Grant of 1/4/2016 to reporting person of stock options under the Ionis Pharmacueticals, Inc. 2011 Equity Incentive Plan. 25% of the shares subject to the option vest and become exercisable on 1/4/2017. Thereafter, the remaining shares subject to the option vest and become exercisable in 36 equal monthly installments, at the rate of 48,796 shares per year. Following this transaction, the option was exercisable as to 0 on 1/4/2016.
- 2. Grant of 1/4/2016 to reporting person's wife of stock options under the Ionis Pharmacueticals, Inc. 2011 Equity Incentive Plan. 25% of the shares subject to the option vest and become exercisable on 1/4/2017. Thereafter, the remaining shares subject to the option vest and become exercisable in 36 equal monthly installments, at the rate of 2,000 shares per year. Following this transaction, the option was exercisable as to 0 on
- 3. Acquired as a result of exercising a stock option pursuant to Rule 10b5-1 Trading Plan. The purchase and sale reported on this Form 4 was effective pursuant to Rule 10b5-1 Trading Plan adopted by the reporting person on 9/21/2015.
- 4. Acquired as a result of exercising a stock option pursuant to Rule 10b5-1 Trading Plan. The purchase and sale reported on this Form 4 was effective pursuant to Rule 10b5-1 Trading Plan adopted by the reporting person's wife on 9/21/2015

Remarks:

/s/B. Lynne Parhsall, attorney-in-01/04/2016 fact

** Signature of Reporting Person 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.	