FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT	OF CHANGES	S IN BENEFICIAL	OWNERSHIP

OMB AP	PROVAL
OMB Number:	3235-0287
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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]								heck X	all applic	cable)	g Pers	on(s) to Issi 10% Ow Other (s	ner
(Last) (First) (Middle) C/O IONIS PHARMACEUTICALS, INC. 2855 GAZELLE COURT					3. Date of Earliest Transaction (Month/Day/Year) 01/08/2018									X Office (give title below) Chairman and CEO					
(Street)	BAD C.	A	92010		_ 4.	If Ame	endme	nt, Date o	of Origina	al File	d (Month/Da	y/Year)		Indiv ne) X	Form fi	iled by One	Repo	(Check Apporting Person One Repor	1
(City)	(S	tate)	(Zip)												Persor	1			
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
Date		2. Transa Date (Month/I		r) E	2A. Deemed Execution Date, if any (Month/Day/Year)		Code (Instr.		4. Securities Acquired (A) of Disposed Of (D) (Instr. 3, 4		(A) or 3, 4 and	Benefici Owned F		es ially Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership		
									Code	v	Amount	(A) or (D)	Price		Reported Transaction(s) (Instr. 3 and 4)				Instr. 4)
Common Stock		01/08	/08/2018		01/08/2018		M ⁽¹⁾		10,000(1)) A	\$14.69		48,014		D				
Common Stock		01/08	01/08/2018		01/08/2018		S ⁽¹⁾		10,000(1)) D	\$52.0	\$ 52.01 ⁽²⁾ 38		,014		D			
Common Stock			01/08	8/2018		01/08/2018		M ⁽³⁾		1,000(3)	A	\$10.	510.82 4,		062		I 1	By wife	
Common Stock		01/08	08/2018		01/08/2018		S ⁽³⁾		1,000(3)	D	\$52.0)1 ⁽⁴⁾ 3,0		062		I 1	By wife		
Common Stock											725		5,391		I 1	By trust			
		-	Table II								oosed of, convertil			y O	wned				
1. Title of Derivative Security (Instr. 3)	erivative Conversion Date Execution Date, T ecurity or Exercise (Month/Day/Year) if any C			nsaction of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		De	Price of erivative ecurity 1str. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	lly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)				
					Code	v	(A)	(D)	Date Exercis	able	Expiration Date	Title	Amount or Number of Shares						
Employee Stock Option (right to buy)	\$14.69	01/08/2018	01/08/	/2018	M			10,000	01/02/2	017	01/29/2020	Common Stock	10,000		\$0	36,642	2	D	
Employee Stock Option (right to buy)	\$10.82	01/08/2018	01/08/	3/2018 M				1,000	01/02/2	017	01/01/2020	Common Stock	1,000		\$0	7,904		I	By wife

Explanation of Responses:

- 1. 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 6/17/2016.
- 2. The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$51.67 to \$52.35, 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 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 6/17/2016.
- 4. The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$51.67 to \$52.35, inclusive. The reporting person's wife 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 (4) on this Form 4.

Remarks:

/s/B. Lynne Parshall, attorney-

01/10/2018

in-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.