FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C. 20549
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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).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

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

Name and Address of Reporting Person* CROOKE STANLEY T						2. Issuer Name and Ticker or Trading Symbol IONIS PHARMACEUTICALS INC [IONS]										all app	Iship of Reporting Person(s) to Ist applicable) irector 10% Ow officer (give title Other (s		wner		
	(Last) (First) (Middle) C/O IONIS PHARMACEUTICALS, INC 2855 GAZELLE COURT					3. Date of Earliest Transaction (Month/Day/Year) 06/17/2020										belov	v) ``	below) an of the Board		·	
(Street) CARLSBAD CA 92010 (City) (State) (Zip)						4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Indiv Line) X	Form Form	dual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person				
(City)	(-	•		Non-Deriva	tive	Seci	rities	. Δ c	uni	ired I	Die	enosed o	of or	Renefi	cially	Own	ed				
1. Title of Security (Instr. 3)			2. Transaction Date (Month/Day/Ye	ar) i	2A. Deemed Execution Date, if any (Month/Day/Year)		, 3 T	3. Transaction Code (Instr. 8)		4.	4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 an				5. Amount of Securities Beneficially Owned Following		6. Ownership Form: Direct (D) or Indirect (I)		7. Nature of Indirect Beneficial Ownership		
					G	Code	v	Ar	mount	(A) or (D)	Price			orted (In saction(s) 7. 3 and 4)		tr. 4)	(Instr. 4)				
Common Stock				06/17/2020	0				S		1	5,000(1)	D	\$57.90	014(2)	2	26,935		D		
Common Stock 0				06/17/2020	0				S		2	2,000(3)	D	\$58	.25	3	3,581		I	By Wife	
Common	Stock			06/19/2020	0				S		1	.0,000(1)	D	\$58.3	325 ⁽⁴⁾	1	6,935		D		
Common	mmon Stock														7		700,391		I	By Trust	
		Та	ble	II - Derivati (e.g., pu								osed of, convertil				Owne	d				
1. Title of Derivative Security (Instr. 3)	tive Conversion Date Execution Date, or Exercise (Month/Day/Year) if any		ecution Date, ny	Code 8)	sinsaction of Derivati Securiti Acquire (A) or Dispose of (D) (Instr. 3 and 5)		vative irities iired r osed) r. 3, 4	Expiration (Month/D etc.) Expiration (Month/D etc.) Expiration (Month/D etc.)			n Date ay/Year)		7. Title and Amount of Securities Underlying Derivative Security (Inst 3 and 4)		rice of ivative surity str. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	,	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		

Explanation of Responses:

- 1. Shares sold pursuant to a Rule 10b5-1 Trading Plan adopted by the reporting person on January 2, 2020.
- 2. The price reported in column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$57.59 to \$58.36, 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) of this Form 4
- $3. \ Shares sold \ pursuant \ to \ a \ Rule \ 10b5-1 \ Trading \ Plan \ adopted \ by \ the \ reporting \ person's \ wife \ on \ January \ 2, \ 2020.$
- 4. The price reported in column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$58.25 to \$58.40, 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 (4) of this Form 4

Remarks:

/s/Patrick R. O'Neil, attorney-

06/19/2020

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.