FORM 4

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

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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 APPRO	DVAL										
	OMB Number: 3235-028											
	Estimated average burden											
	hours per response:	0.5										
- 1												

1. Name and Address of Reporting Person CROOKE STANLEY T						IONIS PHARMACEUTICALS INC [IONS]								(Check all applicable) X Director 10% Owner X Officer (give title Other (spe					ner		
C'/CYTCYNTE DELADMAC'ETTTC'ALE TNC						3. Date of Earliest Transaction (Month/Day/Year) 04/15/2019									below)	below)	респу				
(Street) CARLSBAD CA 92010							4. If Amendment, Date of Original Filed (Month/Day/Year) 6. Inc Line)										Form filed by One Reporting Person				
(City) (State) (Zip)													Person		e tnan	One Repor	ung				
		Tak	ole I - I	Non-Deri	ivativ	e Sec	curiti	ies A	cquire	ed, C	Disposed o	f, or B	enefic	ially	Owned						
1. Title of	Security (Ins	tr. 3)		2. Transac Date (Month/Da		Execu	A. Deemed execution Date, any Month/Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 a			5)	5. Amount of Securities Beneficially Owned Following Reported	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	: Direct · Indirect str. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)			
								Code	v	Amount	(A) or (D)	Price		Transaction(s) (Instr. 3 and 4)			(IIIsu. 4)				
Common	Stock			04/15/2	2019	04/	/15/20	019	M ⁽¹⁾		10,000(1)	A	\$14	1.69	79	,634		D			
Common	Stock			04/15/2	2019	04/	/15/20	019	S ⁽¹⁾		10,000(1)	D	\$85	5.25	69	,634		D			
Common Stock				04/15/2	2019	04/	/15/20	019	M ⁽²⁾		1,000(2)	A	\$10.82		6,	5,532		I 1	By wife		
Common Stock Common Stock				04/15/2	2019	9 04/15/2019		S ⁽²⁾		1,000(2)	D	\$85.25		5,	5,532		I 1	By wife			
Common	Stock			04/16/2	2019	9 04/16/2019		M ⁽¹⁾		6,680(1)	A	\$14.69		76	76,314		D				
Common	Stock			04/16/2	2019	9 04/16/2019		S ⁽¹⁾	L	6,680(1)	D	\$84.75		69	9,634		D				
Common Stock Common Stock Common Stock Common Stock				04/16/2	2019			019	M ⁽¹⁾		13,320(1)	A	\$39.87		82	2,954		D			
Common Stock Common Stock Common Stock Common Stock				04/16/2	2019	04/	/16/20	019	S ⁽¹⁾		13,320(1)	D	\$84.5623 ⁽³⁾		69	9,634		D			
Common Stock Common Stock Common Stock				04/16/2	2019	-	/16/20		M ⁽²⁾		300(2)	A	\$10.82		5,	832		I 1	By wife		
Common Stock			04/16/2	2019	04/	/16/20	019	S ⁽²⁾		300(2)	D	\$84	1.75	5,	532		I 1	By wife			
				04/16/2019					M ⁽²⁾	<u> </u>	700 ⁽²⁾	A	\$39.87		6,232				By wife		
Common	Stock			04/16/2019		04/16/2019		S ⁽²⁾		700(2)	D	\$84.75			532		I 1	By wife			
Common	Stock														l	5,391		I	By trust		
		•	Table								sposed of, s, converti				wned						
1. Title of Derivative Security (Instr. 3)	e of 2. 3. Transaction 3A. De ative Conversion Date Executify or Exercise (Month/Day/Year) if any		Execut if any			ansaction ode (Instr.				te Exe ation I th/Day		7. Title and Ame of Securities Underlying Derivative Secu (Instr. 3 and 4)		D S	Price of derivative ecurity nstr. 5) Beneficio Owned Followin Reported Transact (Instr. 4)		ly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		
					Code	v	(A)	(D)	Date Exerc	cisable	Expiration Date	Title	Amo or Num of Shar	ber							
Employee Stock Option (right to buy)	\$14.69	04/15/2019	04/1	04/15/2019		10,000		01/02/2017		01/29/2020	Common Stock	ⁿ 10,000		\$0	6,680		D				
Employee Stock Option (right to buy)	\$10.82	04/15/2019	04/1	15/2019	M	1,000		1,000	01/02/2017		01/01/2020	Common Stock	n 1,000		\$0	300		Ĭ	By wife		
Employee Stock Option (right to buy)	\$14.69	04/16/2019	04/1	04/16/2019		6,680		6,680	01/02/2017		01/29/2020	Common Stock 6,680		80	\$0	0		D			

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)															
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)		Transaction of Code (Instr. Derivative		6. Date Exerc Expiration Da (Month/Day/\)	ate	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	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				
Employee Stock Option (right to buy)	\$39.87	04/16/2019	04/16/2019	M			13,320	01/02/2018	01/01/2021	Common Stock	13,320	\$0	57,180	D	
Employee Stock Option (right to buy)	\$10.82	04/16/2019	04/16/2019	M			300	01/02/2017	01/01/2020	Common Stock	300	\$0	0	I	By wife
Employee Stock Option (right to buy)	\$39.87	04/16/2019	04/16/2019	M			700	01/02/2018	01/01/2021	Common Stock	700	\$0	2,500	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 3/13/2019.
- 2. 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 3/13/2019.
- 3. The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$84.50 to \$84.75, 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 (3) on this Form 4.

Remarks:

/s/Patrick R. O'Neil, attorney-04/17/2019 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.