FORM 4

Section 16. Form 4 or Form 5 obligations may continue. See

Instruction 1(b)

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	STATEMENT OF CHANGES IN BENEFICIAL	OWNERSHIP

OMB APPROVAL OMB Number: 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* O'NEIL PATRICK R.						2. Issuer Name and Ticker or Trading Symbol IONIS PHARMACEUTICALS INC [IONS									5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner					
(Last) (First) (Middle)					- []]								X	Officer below)	(give title	ve title Other (specify below)		pecify	
C/O IONIS PHARMACEUTICALS, INC. 2855 GAZELLE COURT					3. Date of Earliest Transaction (Month/Day/Year) 02/27/2019									SVP	Legal & (Genera	ll Counse	l		
					_ 4.	4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable Line)					
(Street) CARLSBAD CA 92010													X Form filed by One Reporting Person							
					-									Form fi Persor	Form filed by More than One Reporting Person					
(City)	(S		(Zip)		. ,.			_				<u> </u>								
1 Title of 9	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned L. Title of Security (Instr. 3) 2. Transaction 3. Transaction 4. Securities Acquired (A) or 5. Amount of 6. Ownership 7. Nature																			
Date					Execution Date,		Transaction Code (Instr. 8)		Disposed Of (D) (Instr. 3, 4 and			d 5) Securiti Benefici		ies ially	Form: Direct (D) or Indirect (I) (Instr. 4)	Direct C	of Indirect Beneficial Ownership			
						(Code	v	Amount	(A) or (D)	Price		Reported Transaction(s) (Instr. 3 and 4)				Instr. 4)		
Common Stock				02/27/2	/27/2019		02/27/2019		M ⁽¹⁾		4,700(1)	A	\$47	7.34	24	4,373		D		
Common Stock 02				02/27/2	2019	02	2/27/2019		S ⁽¹⁾		4,700(1)	D	\$64.5	116 ⁽²⁾	19	,673		D		
Common Stock				02/27/2	02/27/2019		02/27/2019		M ⁽¹⁾		14,100(1)	A	\$47	\$47.34		,773]	D		
Common Stock			02/27/2	2/27/2019		02/27/2019		S ⁽¹⁾		14,100(1)	D	\$68	68.75),673		D			
Common Stock 0			02/27/2	.019 02		2/27/2019		M ⁽¹⁾		8,000(1)	A	\$39	39.87 2		7,673		D			
Common Stock			02/27/2	02/27/2019 02)2/27/2019		S ⁽¹⁾		8,000(1)	D	\$68	3.75	19	19,673		D			
		7	Table I								posed of, , convertil				wned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security		if any		4. Transa Code (8)	5. Number		ve es d	6. Date Exel Expiration I (Month/Day)		cisable and late	7. Title and Amo of Securities Underlying Derivative Secu (Instr. 3 and 4)		unt 8.	Price of erivative ecurity nstr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	ly C	LO. Dwnership Form: Direct (D) or Indirect I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exerc	isable	Expiration Date	Title	Amo or Num of Share	ber						
Employee Stock Option (right to buy)	\$47.34	02/27/2019	02/2	27/2019 M			18,800		01/03	/2019	01/02/2024	Commor Stock	18,8	800	\$0	4,755		D		
Employee Stock Option (right to buy)	\$39.87	02/27/2019	02/2	27/2019	M		8,000		01/02	/2018	01/01/2021	Commor Stock	8,0	00	\$0	0		D		

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 8/29/2018.
- 2. The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$64.50 to \$64.55, 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.

Remarks:

Patrick R. O'Neil

03/01/2019

** 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.