FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, [D.C.	20549
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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPRO	DVAL			
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

Name and Address of Reporting Person* O'NEIL PATRICK R.						2. Issuer Name and Ticker or Trading Symbol IONIS PHARMACEUTICALS INC IONS									(Ch	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director Total Company Compa				wner	
(Last) (First) (Middle) C/O IONIS PHARMACEUTICALS, INC. 2855 GAZELLE COURT						3. Date of Earliest Transaction (Month/Day/Year) 02/12/2019											below) below) SVP Legal & General Counsel				
(Street) CARLSE			92010 (Zip)		_ 4. 1	4. If Amendment, Date of Original Filed (Month/Day/Year) 6. Individual or Joint/Group Filing (Check Application) X Form filed by One Reporting Person Form filed by More than One Reporting Person											on				
(9)			le I - Noi	n-Deriv	/ative	e Se	curiti	es A	cau	ired. [Disi	oosed (of. or	3ene	eficial	lv Owne	ed				
1. Title of Security (Instr. 3) 2. Transa Date (Month/D					action	ction 2A. Deemed Execution Dat			ned 3. n Date, Transacti Code (Ins			4. Securities Acquired (A) Disposed Of (D) (Instr. 3,				5. Amo Securi Benefi Owner	ount of ties cially I Following	Forr (D) (n: Direct or Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership	
									Ī	Code	v	Amount (A) or (D)		Price	Reported Transaction(s) (Instr. 3 and 4)				(Instr. 4)		
Common Stock 02/12					2/2019	2019 02/12/2019		9	M ⁽¹⁾		275(1)		A	\$39.8	37 1	19,948		D			
Common Stock 02/12					2/2019	9	02/12	2/2019	9 s ⁽¹⁾ 275 ⁽¹⁾ D \$		\$59.5	(1) 1	19,673		D						
		Т	able II -									sed of onverti				Owned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deeme Execution if any (Month/Da	Date,	4. Transaction Code (Instr. 8)		5. Number of		Exp	6. Date Exercisa Expiration Date (Month/Day/Year			7. Title and Amount of Securities Underlying Derivative Secu (Instr. 3 and 4)			8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transaction (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 Exe	e ercisable		epiration	Title	or No of	umber						
Employee Stock Option (right to buy)	\$39.87	02/12/2019	02/12/2	2019	М		275		01/	/02/2018	01	/01/2021	Commo Stock	n	275	\$0	8,000		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.

Remarks:

02/14/2019 /s/Patrick R. O'Neil

** 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.