FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT	OF CHANG	ES IN BEI	NEFICIAL (OWNERSH	ΗP

OMB APPROVAL										
OMB Number:	3235-0287									
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hours per response:	0.5									

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* O'NEIL PATRICK R.				2. Issuer Name and Ticker or Trading Symbol IONIS PHARMACEUTICALS INC [IONS]											k all appli Directo	icable) or r (give title	g Per	son(s) to Iss 10% Ov Other (s below)	vner		
(Last) (First) (Middle) C/O IONIS PHARMACEUTICALS, INC. 2855 GAZELLE COURT					3. Date of Earliest Transaction (Month/Day/Year) 04/24/2017													Gene	ral Counse	el	
(Street) CARLSBAD CA 92010				_ 4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)										6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person						
(City)	(S	state)	(Zip)														. 0.00				
		Tab	le I - No	n-Deriv	ative	e Se	curiti	es A	cqu	ired, I	Disp	osed o	of, o	r Be	nefici	ally	Owne	d			
1. Title of Security (Instr. 3) 2. Trans Date (Month/				exp/Year) 2A. Deemed Execution Date, if any (Month/Day/Year)			е,	3. 4. Securities Acquired (Disposed Of (D) (Instr. 5) 8)					Securiti Benefic Owned	Amount of ecurities eneficially wned Following		n: Direct or Indirect nstr. 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 04/				04/24	/2017		04/24/2017		7	M ⁽¹⁾		74(1)		A	\$10	\$10.82		.0,523		D	
Common Stock				04/24	4/2017		04/24/2017		7	S ⁽¹⁾		74(1))	D	\$4	4 5	10	10,449		D	
Common Stock 04/24				4/2017	2017 04/2		4/2017		M ⁽¹⁾		426(1	1)	A	\$10	.82	10,875			D		
Common Stock 04/24				4/2017	/2017 04/24/2017		7	S ⁽¹⁾		426(1	1)	D	\$4	45 10		0,449		D			
		Т	able II -									sed of onverti					wned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	cise (Month/Day/Year) if any (Month/Day/Year) Code (I (Month/Day/Year) 8)		action of E		Exp	6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Secu (Instr. 3 and 4)		l Security	8. Price of Derivative Security (Instr. 5)		9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	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		piration ate	Title		Amoun or Numbe of Shares						
Employee Stock Option (right to buy)	\$10.82	04/24/2017	04/24/2	2017	М			74	01/	/02/2017	01	/01/2020	Com Sto		74		\$0	2,270		D	
Employee Stock Option (right to buy)	\$10.82	04/24/2017	04/24/2	2017	М			426	01/	/02/2017	01	/01/2020	Com Sto		426		\$0	3,500		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 1/6/2017.

Remarks:

/s/Patrick R. O'Neil ** Signature of Reporting Person 04/26/2017

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).

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.

^{**} Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).