FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL										
OMB Number:	3235-028									

37 Estimated average burden 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

Name and Address of Reporting Person*     O'NEIL PATRICK R.						2. Issuer Name and Ticker or Trading Symbol  IONIS PHARMACEUTICALS INC [ IONS ]									heck all a Di	applio recto	able)			wner (specify		
(Last) (First) (Middle) C/O IONIS PHARMACEUTICALS, INC. 2855 GAZELLE COURT						3. Date of Earliest Transaction (Month/Day/Year) 01/29/2018										SVP Legal & General Counsel						
(Street) CARLSBAD CA 92010					_   4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)											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		(Zip)																			
1 Title of (	Coourity (Inc		le I - Noi	n-Deriv		_	2A. Dee		cquired,	Dis	1							6 Own	ershin .	7. Nature		
Date				Date	Day/Year)		Execution Date, if any (Month/Day/Year)		e, Transaction Code (Instr.				r. 3, 4 an	d Sed Ber Ow	5. Amount of Securities Beneficially Owned Following		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Direct ndirect tr. 4)	of Indirect Beneficial Ownership			
									Code	v	Amount		(A) or (D)	Price	Tra		ion(s) and 4)			(Instr. 4)		
Common Stock 01/29					9/2018	8	01/29/2018		B M <sup>(1)</sup>		55(1	)	A	\$10.	B2 14		1,507		)			
Common Stock 01/29					9/2018	8	01/29	01/29/2018			55(1	)	D	\$5	5 14		452	I	)			
Common Stock 01/29/					9/2018	8	01/29	9/2018	B M <sup>(1)</sup>		3000	1)	A	\$10.	82	14,	14,752		)			
Common Stock 01/29/					/2018 01/		01/29	1/29/2018			3000	1)	D \$55		5 14,452		452	D				
		Т	able II -						juired, [ s, optio						y Own	ed						
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemde Execution if any (Month/Da	Date,	4. Transactio Code (Inst 8)		on of		6. Date Exercisa Expiration Date (Month/Day/Yea			7. Title and Amount of Securities Underlying Derivative Sec (Instr. 3 and 4)		Security	8. Price Derivat Securit (Instr. 5	ive y	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	y Di	). wnership orm: irect (D) r Indirect ) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		
					Code	v	(A)	(D)	Date Exercisab		xpiration ate	Title		Amount or Number of Shares								
Employee Stock Option (right to buy)	\$10.82	01/29/2018	01/29/2	2018	3 M			55	01/02/201	.7 0	1/01/2020	Common Stock		55	\$0		0		D			
Employee Stock Option (right to	\$10.82	01/29/2018	01/29/2	2018	М			300	01/02/201	.7 0	1/01/2020	Comi		300	\$0		1,400		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 6/30/2017.

## Remarks:

/s/Patrick R. O'Neil

01/31/2018

\*\* 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.