FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

STATEMENT	OF CHAN	IGES IN B	ENEFICIAL	OWNERSHIP

l	OMB APPRO	VAL
	OMB Number:	3235-0287
l	Estimated average burd	en
l	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

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1. Name and Address of Reporting Person* O'NEIL PATRICK R.					2. Issuer Name and Ticker or Trading Symbol IONIS PHARMACEUTICALS INC IONS									S (Cr	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner Officer (give title Other (specify					
	`	ACEUTICALS	(Middle)		01/	3. Date of Earliest Transaction (Month/Day/Year) 01/25/2018										X Officer (give title Other (specify below) SVP Legal & General Counsel				el
(Street) CARLSBAD CA 92010					_ 4. li _	4. If Amendment, Date of Original Filed (Month/Day/Year) 6. Individual or Joint/Group Filing (Check Appli Line) X Form filed by One Reporting Person Form filed by More than One Reportin Person										n				
(City)	(S	tate)	(Zip)																	
		Tab	le I - Noi	n-Deriv	vative	e Se	curiti	es Ac	quir	ed, D	Disp	osed o	of, or	Ben	eficial	ly Owne	d			
Date					Day/Year) i		2A. Deemed Execution Date, if any (Month/Day/Year		Code (Instr.		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4 5)				Benefi	ies cially Following	Forn (D) c	n: Direct or Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
				C	ode \	,	Amount	(A (D) or)	Price	Transa (Instr. 3	ction(s)			(111501.4)					
Common Stock 01/25/					5/2018	/2018 01/25/2018		B N	1 ⁽¹⁾		645(1	1)	A	\$10.8	32 1	5,097		D		
Common Stock 01/25/				5/2018	/2018 01/25/2018		3 5	S ⁽¹⁾		645(1	1)	D	\$55	14,452			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. Transa Code (8)		n of		6. Date Exercisab Expiration Date (Month/Day/Year)			Amoun Securit Underly Derivat		7. Title and Amount of Securities Juderlying Jerivative Security Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	у	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exerc	isable	Ex Da	piration te	Title	0 0	Amount or Number of Shares					
Employee Stock Option (right to	\$10.82	01/25/2018	01/25/2	2018	M			645	01/02	2/2017	01	/01/2020	Comm Stock		645	\$0	55		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

01/29/2018

** 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.