SEC Form 4	
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Performance Restricted

Stock

Stocl

Unit<sup>(3)</sup>

Units<sup>(1)</sup> Restricted \$<mark>0 0</mark>

\$0.0<sup>(4)</sup>

Explanation of Responses:

## FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL

I

	OMB Number:	3235-0287								
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).

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(b) of the Investment Company Act of 1940

					or	Secu	ion 30(n) o	in the l	nvestmer		mpany Act o	01 19	40							
1. Name and Address of Reporting Person <sup>*</sup> 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					
														Officer	ı (qive title		Other (s			
(1 1)	(F)-		<b>A</b> <sup>2</sup> -1 -11 - X		3. D	3. Date of Earliest Transaction (Month/Day/Year)									below)	(give title		below)	specity	
(Last) (First) (Middle)						01/15/2023								EVP CLO & General Counsel						
2855 GAZELLE COURT																				
P					4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. In	6. Individual or Joint/Group Filing (Check Applicable					
(Street)															Line)					
CARLSB	AD CA	9	2010											2	X Form filed by One Reporting Person					
					- I										Form fi Person		re than	One Repo	ting	
(City)	(Sta	te) (2	Zip)												Feison					
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
		Tab	e I - Noi	n-Deriv	ative	Se	curities	ACC	juirea,	DIS	posed o	t, oi	r Ben	eficiali	/ Owned					
1. Title of Security (Instr. 3) Date (Month/D				Day/Year) if		2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 9) 8) 4. Securitie Disposed C 5)						Securities Beneficia Owned Fe	curities neficially /ned Following		: Direct Indirect str. 4)	7. Nature of Indirect Beneficial Ownership		
									Code	v	Amount (A) or (D)		Price	Reported Transaction(s) (Instr. 3 and 4)				(Instr. 4)		
		т	able II -	Deriva	tive S	Sec	urities A	Acau	ired. D	)isp	osed of,	orl	Benef	icially	Owned					
											onvertik									
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deem Execution if any (Month/Da	Date,		5. Number Transaction of Code (Instr. Derivative		6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and An of Securities Underlying Derivative Sec (Instr. 3 and 4)		Security	8. Price of Derivative Security (Instr. 5)		ve es ally ig d tion(s)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4	Beneficial Ownership (Instr. 4)		
					Code	v	(A)	(D)	Date Exercisa	ible	Expiration Date	Titl		Amount or Number of Shares						

5. Restricted Stock Units vest in four equal annual installments. Upon vesting, the restricted stock units will be paid out in whole shares of Ionis common stock or cash as may be determined by the Company.

2. Represents an award of performance based restricted stock units ("PRSUs"). The PRSUs may vest at the end of the three-year performance period following the date of grant based on the Issuer's relative total shareholder return as compared to a peer group of companies. The number of PRSUs reported represents the maximum that may be earned, which is 200% of the target number. No number of PRSUs is guaranteed to vest and the actual number of PRSUs that will vest at the end of the performance period may be anywhere from zero to the amount stated.

(2)

(5)

Patrick R. O'Neil \*\* Signature of Reporting Person

Commor

Stock

Commor

Stock

14 338

17,207

\$<mark>0 0</mark>

\$<mark>0 0</mark>

(2)

(5)

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

 $^{\ast}$  If the form is filed by more than one reporting person, see Instruction 4 (b)(v).

01/15/2023

01/15/2023

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

Grant to reporting person of Restricted Stock Units under the Ionis Pharmaceuticals, Inc. Amended and Restated 2011 Equity Incentive Plan.
Each Restricted Stock Unit represents a contingent right to receive one share of Ionis common stock, or its equivalent cash value.

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.

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1. Grant to reporting person of Performance Restricted Stock Units under the Ionis Pharmaceuticals, Inc. Amended and Restated 2011 Equity Incentive Plan.

01/18/2023 Date

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69,526

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