FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL								
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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

(Street)	855 GAZELLE COURT					Issuer Name and Ticker or Trading Symbol IONIS PHARMACEUTICALS INC [IONS] Date of Earliest Transaction (Month/Day/Year) 01/15/2023 4. If Amendment, Date of Original Filed (Month/Day/Year)							6.	S. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner X Officer (give title Other (specify below) EVP, Finance & CFO 6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person Person					
(City)	(Sta	te) (Z	Zip)		,														
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																		
1. Title of Security (Instr. 3) 2. Transa Date (Month/D					Execution Date,			Transaction Dispose Code (Instr. 5)		Disposed	ties Acquired (A) or d Of (D) (Instr. 3, 4 and		Benefici	es ally following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of ndirect Beneficial Ownership Instr. 4)		
								Code	v	Amount	(A) or (D)	Price	Transact	Transaction(s) (Instr. 3 and 4)			msu. 4)		
	Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																		
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)		4. Transaction Code (Instr. 8)		n of		6. Date Exercisabl Expiration Date (Month/Day/Year)		of Securities		es g Security	Derivative Security	9. Number derivative Securities Beneficia Owned Following Reported Transacti (Instr. 4)	e s ally g	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisa		Expiration Date	Title	Amoun or Numbe of Shares						
Performance Restricted Stock Units ⁽¹⁾	\$0.0	01/15/2023			A		16,216		(2)		(2)	Common Stock	16,21	\$0.0	28,63	35	D		
Restricted Stock Unit ⁽³⁾	\$0.0 ⁽⁴⁾	01/15/2023			A		19,460		(5)		(5)	Common Stock	19,46	\$0.0	75,29	07	D		

Explanation of Responses:

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

By: Patrick R. O'Neil, attorney-

01/18/2023 in-fact For: Elizabeth L.

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** 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.