SEC Form 4	
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FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL
OMB Number: 3235-0287

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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(h) of the Investment Company Act of 1940

1. Name and Addr	1 0	Person [*]	2. Issuer Name and Ticker or Trading Symbol IONIS PHARMACEUTICALS INC	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)			
<u>O'NEIL PATRICK R.</u>					Director Officer (give title	10% Owner Other (specify	
(Last) (First) (Middle) 2855 GAZELLE COURT		(Middle)	3. Date of Earliest Transaction (Month/Day/Year)	X	below)	below)	
		()	01/17/2023		EVP CLO & General Counsel		
(Street)			4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indiv Line)	vidual or Joint/Group Filir	ng (Check Applicable	
CARLSBAD	CA	92010		X	Form filed by One Rep	porting Person	
(City)	(State)	(Zip)	—		Form filed by More that Person	an One Reporting	
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned							

Table 1 Tion Bentrative Coounties Acquired, Bioposod el, el Benenelany enned										
1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transa Code (8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)		5. Amount of Securities Beneficially Owned Following Reported	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
			Code	v	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		(1150.4)
Common Stock	01/17/2023		M ⁽¹⁾		21,871 ⁽¹⁾	A	\$0.0	56,515	D	
Common Stock	01/18/2023		S ⁽²⁾		7,836 ⁽²⁾	D	\$39.4946 ⁽³⁾	48,679	D	

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities) 3A. Deemed 8. Price of Derivative 1. Title of 3. Transaction 5. Number 6. Date Exercisable and 7. Title and Amount 9. Number of 10. 11. Nature Transaction Conversion of Securities Underlying Derivative Security Ownership Derivative Date Execution Date. Expiration Date (Month/Day/Year) derivative of Indirect of (Month/Day/Year) Derivative Security (Instr. 3) if any (Month/Day/Year) Security (Instr. 5) Beneficial or Exercise Code (Instr. Securities Form Price of 8) Securities Beneficially Direct (D) Ownership Owned Following Reported Derivative Acquired (Instr. 3 and 4) or Indirect (I) (Instr. 4) (Instr. 4) Security (A) or Disposed of (D) (Instr. 3, 4 and 5) Transaction(s) (Instr. 4) Amount or Number Date Exercisable Expiration of Shares ν (A) (D) Title Code Date Restricted Common \$0.0⁽⁴⁾ 01/17/2023 (5) (5) 21,871 47,655 Μ 21.871 \$0.0 D Stock Unit Stock

Explanation of Responses:

1. Acquired pursuant to vesting and release of shares in accordance with Restricted Stock Unit awards.

2. The sale was made pursuant to an automatic sale to cover the required tax withholding obligations pursuant to the 2011 Equity Incentive Plan Restricted Stock Unit Agreement and Grant Notice.

3. The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$39.44163 to \$39.54855 inclusive. The reporting person undertakes to provide to Ionis Pharmaceuticals, Inc. any security holder of Ionis Pharmaceuticals, Inc. or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the ranges set forth in footnote (3) on this Form 4.

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.

Patrick R. O'Neil	<u>01/19/2023</u>			
** 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.