SEC Form 4	
------------	--

FORM 4

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549 STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL

OMB Number:	3235-0287
Estimated average bure	den
hours per response:	0.5

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934

1. Name and Addre		erson [*]	2. Issuer Name and Ticker or Trading Symbol IONIS PHARMACEUTICALS INC [IONS	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
<u>KLEIN JOSEPH III</u>			1	X	Director	10% Owner			
(Last) (First) (Middle) 2855 GAZELLE COURT			_]		Officer (give title	Other (specify			
		(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 07/15/2022		below)	below)			
(Street)			4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indi Line)	vidual or Joint/Group Fili	ng (Check Applicable			
CARLSBAD	CA	92010		X	Form filed by One Re	porting Person			
(City)	(State)	(Zip)	-		Form filed by More th Person	an One Reporting			

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. 4. Securities Acquired (A) or Transaction Disposed Of (D) (Instr. 3, 4 and 5) Code (Instr. 8) A				5. Amount of Securities Beneficially Owned Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership	
			Code	v	Amount	(A) or (D)	Price	Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)
Common Stock	07/15/2022		M ⁽¹⁾		5,333(1)	A	\$0.0	17,459	D	
Common Stock	07/15/2022		M ⁽²⁾		2,665 ⁽²⁾	Α	\$0.0	20,124	D	
Common Stock	07/15/2022		S ⁽³⁾		689 ⁽³⁾	D	\$37.74(4)	19,435	D	
Common Stock	07/15/2022		S ⁽³⁾		644 ⁽³⁾	D	\$38.78(5)	18,791	D	
Common Stock								100	Ι	by Son ⁽⁶⁾
Common Stock								6,000	Ι	by Trust

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

	(eigi, pale, calle, marane, epiterie, contention coourner)														
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. Transa Code (8)		n of		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Restricted Stock Unit	\$0.0 ⁽⁷⁾	07/15/2022		М			5,333	(8)	(8)	Common Stock	5,333	\$0.0	9,775	D	
Restricted Stock Unit	\$0.0 ⁽⁷⁾	07/15/2022		М			2,665	(9)	(9)	Common Stock	2,665	\$0.0	7,110	D	

Explanation of Responses:

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

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

3. Shares sold pursuant to a Rule 10b5-1 Trading Plan adopted by the reporting person on September 18, 2020.

4. The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$37.26 to \$38.225 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 (4) on this Form 4.

5. The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$38.44 to \$39.23 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 (5) on this Form 4.

6. The reporting person disclaims beneficial ownership of all securities held by his son, and this report should not be deemed an admission that the reporting person is the beneficial owner of such securities for purposes of Section 16 or for any other purpose.

7. Each Restricted Stock Unit represents a contingent right to receive one share of Ionis common stock, or its equivalent cash value.

8. Restricted Stock Units vest 100% on either the first anniversary of the date of grant or the next regularly scheduled annual meeting of stockholders of the Company, whichever occurs earlier, and are delivered to the reporting person on the July 15th following the vesting date. Upon vesting, the Restricted Stock Units will be paid in whole shares of Ionis common stock or cash as may be determined by the Company.

9. Restricted Stock Units vest in four equal annual installments and are delivered to the reporting person on the July 15th following the vesting date. Upon vesting, the Restricted Stock Units will be paid in whole shares of Ionis common stock or cash as may be determined by the Company.

By: Patrick R. O'Neil, attorneyin-fact For: Joseph Klein III

** 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.