FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT	OF CHA	ANGES IN	BENEFICIA	L OWNERSHIP

OMB APPRO	OVAL					
OMB Number:	3235-0287					
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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

LOSCA (Last)	ame and Address of Reporting Person*  OSCALZO JOSEPH  est) (First) (Middle)  55 GAZELLE COURT			<u>IO</u> ]	2. Issuer Name and Ticker or Trading Symbol IONIS PHARMACEUTICALS INC [ IONS ]  3. Date of Earliest Transaction (Month/Day/Year) 07/15/2022									eck all appli X Direct Office	elationship of Reporting Person(s) to Issuer ck all applicable)  Director  Officer (give title below)  Director  Other (specify below)					
(Street) CARLSE (City)		tate) (	92010 (Zip)												Individual or Joint/Group Filing (Check Applicable ne)  X Form filed by One Reporting Person Form filed by More than One Reporting Person					
Table I - Non-Deriva  1. Title of Security (Instr. 3)  2. Transa Date (Month/D				action	Execution Date,			3. 4. Secur Transaction Dispose Code (Instr. 5)			of, or Benefic urities Acquired (A) ed Of (D) (Instr. 3, 4			5. Amou Securiti Benefic	int of	Form (D) o	: Direct r Indirect	7. Nature of Indirect Beneficial Ownership		
									Code	v	Amount	() 1)	A) or D)	Price	Transac	Reported Transaction(s) (Instr. 3 and 4)			(Instr. 4)	
Common Stock 07.				07/15	5/2022	/2022		M <sup>(1)</sup>		5,333	(1)	A	\$0.0	31	31,307		D			
Common Stock 07/1			07/15	5/2022	/2022		M <sup>(2)</sup>		2,665	(2)	A	\$0.0	33,972			D				
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)	Date Execution		Date, Transac		tion of		6. Date Exercisab Expiration Date (Month/Day/Year)		е	Amount of			8. Price of Derivative Security (Instr. 5)	9. Numbe derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	s S Illy	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisa		Expiration Date	Title	O N O	lumber						
Restricted Stock Unit	\$0.0 <sup>(3)</sup>	07/15/2022			M			5,333	(4)		(4)	Comm		5,333	\$0.0	9,775		D		

## **Explanation of Responses:**

Stock Unit

- 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.

07/15/2022

- 3. Each Restricted Stock Unit represents a contingent right to receive one share of Ionis common stock, or its equivalent cash value.
- 4. 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.

(5)

5. 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 Loscalzo 07/18/2022

\*\* Signature of Reporting Person Date

2,665

Stock

\$0.0

7,110

D

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

- $^{\star}$  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.