FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C.	20549

STATEMENT	OF CHANGES	IN BENEFICIAL	OWNERSHIP

OMB APPROVAL							
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 56	ection 30(n) or the	e investm	ent Co	ompany Act of :	1940							
1. Name and Address of Reporting Person* LOSCALZO JOSEPH					2. Issuer Name and Ticker or Trading Symbol IONIS PHARMACEUTICALS INC [IONS]								Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner					
							^											
(Last) (First) (Middle) C/O IONIS PHARMACEUTICALS, INC.					3. Date of Earliest Transaction (Month/Day/Year) 07/01/2020								below)	give uue		Other (s below)	респу	
	ZELLE CO		, 11101															
2000 GP	IZELLE CC	JUKI		ŀ	Λ If Δr	mendmen	t Date	of Origins	ıl Eiled	(Month/Day/Ye	aar)	6 Ind	ividual or Jo	int/Group	Filing (Check Anni	icable	
(Street)					4. II AI	nenamen	i, Daic i	or Origina	a i iica	(World // Day/ N	July	Line)	ividual of 50	пистоир	i iiiig (Спсск Аррі	icabic	
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(City)	(5	State)	(Zip)															
		T	able I - Nor	n-Deriva	ative	Securit	ies A	cquire	d, Dis	sposed of,	or Bene	ficially	Owned					
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Date	2. Transaction Date Month/Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Year)		r, Transaction Disposed O Code (Instr.		s Acquired (A) or of (D) (Instr. 3, 4 and 5		5. Amount Securities Beneficial Owned Fo	ly	Form:	Direct Indirect str. 4)	7. Nature of Indirect Beneficial Ownership			
								Cod	e V	Amount	(A) or (D)	Price	Reported Transactio (Instr. 3 ar	on(s) nd 4)			(Instr. 4)	
Common	Stock			07/01/	2020	07/0)1/2020	0 M ⁽¹)	666(1)	A	\$0	13,9	974		D		
Common	Stock			07/01/	2020	07/0)1/2020	0 M ⁽¹)	1,778(1)	A	\$0	15,7	15,752		D		
	nmon Stock			07/02/	2/2020 07/02)2/2020	_	_	889(1)	A	\$0	16,641		D			
Common	Common Stock				6/2020 07/06/2020		$0 \mid M^{(1)}$)	667(1)	A	\$0	17,308			D			
				e, 4.	4. Transaction Code (Instr. 8) 5. Num Deriva Securi Acquir		5. Number of Derivative Securities Acquired (A)		quired, Disposed of, or Beneficia s, options, convertible securities 6. Date Exercisable and Expiration Date (Month/DaylYear) 7. Title and An of Securities Underlying Derivative Sec		d Amount les g Security	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially	e es	Ownership Form: Direct (D)	Beneficial Ownership		
	Derivative Security						or Disposed of (D) (Instr. 3, 4 and 5)				(Instr. 3 aı	nd 4)		Owned Following Reported	ď	or Indirect (I) (Instr. 4)		
					Т							Amount		Transact (Instr. 4)				
												or Number		, ,				
					1	l	l	Date		Expiration	l	of						
				Code	· V	(A)	(D)	Exercis	able	Date	Title	Shares					-	
Restricted Stock Units	(2)	07/01/2020	07/01/2020	М			666	(3)		(3)	Common Stock	666	\$0	0		D		
Restricted Stock Units	(2)	07/01/2020	07/01/2020	М			1,778	(3)		(3)	Common Stock	1,778	\$0	5,33	32	D		
Restricted Stock Units	(2)	07/02/2020	07/02/2020	М			889	(3)		(3)	Common Stock	889	\$0	1,77	7	D		
Restricted Stock Units	(2)	07/06/2020	07/06/2020	М			667	(3)		(3)	Common Stock	667	\$0	666	5	D		
Restricted Stock Units	\$0 ⁽²⁾	07/01/2020	07/01/2020	A		5,333		(4)		(4)	Common Stock	5,333	\$0	5,33	33	D		
Director Stock Option	\$60.2	07/01/2020	07/01/2020	A		12,000		07/01/20)21 ⁽⁵⁾	06/30/2030 ⁽⁵⁾	Common Stock	12,000	\$0	12,00	00	D		

Explanation of Responses:

- 1. Acquired pursuant to vesting and release of shares pursuant to Restricted Stock Unit awards.
- 2. Each Restricted Stock Unit represents a contingent right to receive one share of Ionis common stock, or its equivalent cash value.
- 3. These 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.
- 4. Grant of July 1, 2020 to reporting person of Restricted Stock Unit award under the Amended and Restated Ionis Pharmaceuticals, Inc. 2002 Non-Employee Directors' Stock Option Plan. These 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 will be delivered to the reporting person on the July 15th following the vesting date. The Restricted Stock Unit is vested as to 0 shares on July 1, 2020.
- 5. Grant of July 1, 2020 to reporting person of stock options under the Amended and Restated Ionis Pharmaceuticals, Inc. 2002 Non-Employee Directors' Stock Option Plan. 100% of the shares subject to the option vest and become exercisable 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. The option is exercisable to 0 shares on July 1, 2020.

Remarks:

/s/Patrick R. O'Neil, attorney-in-

07/06/2020

fact

** 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.