FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

	OMB APPROVAL
- 1	

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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).

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

Name and Address of Reporting Person* KLEIN JOSEPH III						2. Issuer Name and Ticker or Trading Symbol IONIS PHARMACEUTICALS INC [IONS]									tionship of Reporting all applicable) Director Officer (give title		g Person(s) to Issuel		vner	
(Last) (First) (Middle) C/O IONIS PHARMACEUTICALS, INC. 2855 GAZELLE COURT					3. Date of Earliest Transaction (Month/Day/Year) 07/01/2017										below) "			Other (s below)	. ,	
(Street) CARLSBAD CA 92010					4. If Amendment, Date of Original Filed (Month/Day/Year)									Indiv ne) X	·					
(City)	(\$	State) 	(Zip) able I - Non-	Deriva	tive S	ecurit	ies Ac	can	ired.	Dis	posed of.	or Bene	eficial	lv C	Owned					
1. Title of Security (Instr. 3) 2. Tra				2. Transac	tion	2A. Deemed Execution Date, if any (Month/Day/Yea		е,	3. Transaction Code (Instr.		4. Securities Acquired (A) of Disposed Of (D) (Instr. 3, 4		(A) or	5. Amoun Securities Beneficial Owned Fo		y	Form:	Direct Indirect str. 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					2/2017 07		01/2017		M ⁽¹⁾		2,469(1)	A	\$0)	10,1	.27		D		
Common Stock															100			I	By Son	
			Table II - D (e								osed of, o			Ov	wned					
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	Code		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		Exp	6. Date Exercisa Expiration Date (Month/Day/Yea			7. Title and Am of Securities Underlying Derivative Sect (Instr. 3 and 4)			8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficia Owned Following Reported	re es ally g	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	v	(A)	(D)	Dat Exe	te ercisabl		Expiration Date	Title	Amou or Numb of Share	er		Transacti (Instr. 4)	ion(s)			
Restricted Stock Units	(2)	07/01/2017	07/01/2017	М			2,469		(3)		(3)	Common Stock	2,46	9	\$0	3,99	9	D		
Restricted Stock Units	(2)	07/03/2017	07/03/2017	A		2,667			(4)		(4)	Common Stock	2,66	7	\$0	2,66	7	D		
Director								_		T	· · · · · ·			Т						

Explanation of Responses:

\$52.22

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

07/03/2017

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

07/03/2017

3. 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.

16,000

4. Grant of July 3, 2017 to reporting person of Restricted Stock Unit Award under the Ionis Pharmaceuticals, Inc. Amended and Restated 2002 Non-Employee Directors' Stock Option Plan. Restricted Stock Units vest in four equal annual installments, the first installment vesting on July 3, 2018. 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. The RSU shall be fully vested on July 3, 2021. The RSU is vested as to 0 shares on July 3, 2017.

07/03/2018⁽⁵⁾

07/02/2027⁽⁵⁾

5. Grant of July 3, 2017 to reporting person of stock options under the Ionis Pharmaceuticals, Inc. Amended & Restated 2002 Non-Employee Directors' Stock Option Plan. The option vests and becomes exercisable in four equal annual installments, the first installment vesting on July 3, 2018. The option shall be fully vested and exercisable on July 3, 2021. The stock option was exercisable as to 0 shares on July 3, 2017.

Remarks:

Stock

Option

(right to

/s/B. Lynne Parshall

Stock

07/03/2017

16,000

D

** Signature of Reporting Person

16,000

\$0

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.