FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

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

OMB APPROVAL

<u></u>							
OMB Number: 3235-0287							
Estimated average burden							
hours per response:	0.5						

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 OWN Filed pursuant to Section 16(a) of the Securities Exchange Act of 193 or Section 30(h) of the Investment Company Act of 1940											_	IP	Estim	Number ated ave per resp	rage burden	0.5		
1. Name and Address of Reporting Person <sup>*</sup> MUTO FREDERICK T					2. Issuer Name and Ticker or Trading Symbol IONIS PHARMACEUTICALS INC [ IONS ]							(Chec	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner Officer (give title Other (specify below) below)					
(Last) (First) (Middle) C/O IONIS PHARMACEUTICALS, INC. 2855 GAZELLE COURT					3. Date of Earliest Transaction (Month/Day/Year) 07/01/2017													
(Street) CARLSI (City)		A State)	92010 (Zip)	[	4. If Am	endment	t, Date d	of Original I	=iled (	Month/Day/Ye	ear)	Line)	i. Individual or Joint/Group Filing (Check Applicable ine) X Form filed by One Reporting Person Form filed by More than One Reporting Pe					
		Т	able I - Nor	-Deriva	tive S	ecurit	ies Ac	cquired,	Dis	posed of, o	or Bene	ficially	Owned					
Date			2. Transac Date (Month/Da		2A. Deemed Execution Date, if any (Month/Day/Year)		Code (	Transaction Disposed Of (D) (Ir Code (Instr.				5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)		Form: Direct In (D) or Indirect Be (I) (Instr. 4) Or		7. Nature of Indirect Beneficial Ownership (Instr. 4)		
								Code	v	Amount	(A) or (D)					Price	insu. 4)	
Common Stock 07/01				07/01/2	/2017 07/01/2017		7 M <sup>(1)</sup>		2,469 <sup>(1)</sup>	A	\$0	7,127			D			
Common Stock													1,500			I I I I I I I I I I I I I I I I I I I I	By Cooley LLP Sal Def & PSP U/A DTD D2/01/74 Pension Plan	
								•		osed of, or onvertible		-	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) 4. Transactio Code (Inst 8)		action (Instr.	5. Number of bion berivative Securities Acquired (A) of (D) (Instr. 3, 4 and 5)			6. Date Exercisat Expiration Date (Month/Day/Year) Date E		7. Title an of Securit Underlyin Derivative (Instr. 3 au	d Amount ies g Security	8. Price of Derivative Security (Instr. 5)	9. Numb derivativ Securitie Benefici Owned Followin Reported Transact (Instr. 4)	re es ally g d	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		
Restricted Stock Units	(2)	07/01/2017	07/01/2017	Code		(A)	(D) 2,469	Exercisab (3)		(3)	Common Stock	2,469	\$0	3,99	9	D		

Commor Stock (2) 07/03/2017 07/03/2017 2,667 (4) (4) 2,667 \$<mark>0</mark> 2,667 A Stock Director Stock Commor 07/03/2018<sup>(5)</sup> 07/02/2027<sup>(5)</sup> 16,000 07/03/2017 16,000 Option \$52.22 07/02/2017 Α \$<mark>0</mark> 16,000 Stock (right to buy) 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. 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 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.

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:** 

Restricted

## /s/B. lynne Parhsall, Attorney-

In-Facty

07/03/2017 Date

D

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\*\* Signature of Reporting Person

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.