FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C.	20549
-------------	------	-------

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL							
OMB Number:	3235-0287						
Estimated average bi	urden						

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).

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person* MUTO FREDERICK T					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					
IIS PHARM	MACEUTICALS	(Middle)		3. Date of Earliest Transaction (Month/Day/Year) 07/01/2018								Officer (g below)	ive title		Other (s below)	pecify	
BAD C	A	92010				t, Date o	of Original Fil	riginal Filed (Month/Day/Year)			Line)	Form file	d by One I	Reporting Person			
(9	State)	(Zip)															
	Т	able I - Non-	Derivat	ive S	ecurit	ies Ac	quired, [Dis	osed of, o	or Bene	ficially	Owned					
1. Title of Security (Instr. 3)		[2. Transaction Date (Month/Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Year)		Transaction Code (Instr.		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and		A) or 3, 4 and 5)	and 5) Securities Beneficially Owned Fol		Form: I (D) or I	Direct ndirect r. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
							Code	v	Amount (A) or (D)		Price	Transaction(s) (Instr. 3 and 4)					
Common Stock			07/01/2)1/2018 0		07/01/2018			2,000(1)	A	\$0	9,127		D			
Common Stock			07/03/2	/03/2018		07/03/2018			667(1)	A	\$0	9,794		D			
Common Stock											1,500			I	By Cooley LLP Sal Def & PSP u/A DTD 2/1/74 Pension Plan		
												wned					
1. Title of Derivative (Instr. 3) 2. Conversion Date (Month/Day/Year) Or Exercise Price of Derivative Security		3A. Deemed Execution Date, if any (Month/Day/Yea	Code (Transaction Code (Instr.		Derivative E				of Securiti Underlying Derivative	es J Security	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported		Form: Direct (D) or Indirect	Beneficial Ownership (Instr. 4)	
			Code	v	(A)	(D)	Date Exercisable			Title	Amount or Number of Shares		(Instr. 4)	on(s)			
(2)	07/01/2018	07/01/2018	М			2,000	(3)		(3)	Common Stock	2,000	\$0	1,999		D		
(2)	07/03/2018	07/03/2018	M			667	(3)		(3)	Common Stock	667	\$0	2,000		D		
(2)	07/02/2018	07/02/2018	A		3,555		(4)		(4)	Common Stock	3,555	\$0	3,555	5	D		
\$42.88	07/02/2018	07/02/2018	A		16,000		07/02/2019 ⁽	5)	07/01/2028 ⁽⁵⁾	Common Stock	16,000	\$0	16,000	0	D		
	FREDE (F IIS PHARM ZELLE CO (S Security (Inst Stock Stock Stock 2. Conversion or Exercise Price of Derivative Security (2) (2) (2)	(First) (IS PHARMACEUTICALS AZELLE COURT BAD CA (State) Tecurity (Instr. 3) Stock Stock Stock Stock 1	(First)	State Countries of Note	Code V C2 07/01/2018 07/02/2018 A	Conversion of Exercise Price of Derivative Security (Month/Day/Year) Stock Stock	Conversion of Exercise Price of Date Private Security	Conversion of Exercision Price of Date Price of Exercision Price	Conversion of Exercise Price of Derivative Security Security	ONIS PHARMACEUTICALS INC.	Conversion Con	Control Cont	Content Cont	Conversion Date D	Content Cont	Content Cont	

- $1. \ Acquired \ pursuant \ to \ vesting \ and \ release \ of \ shares \ pursuant \ to \ Restricted \ Stock \ Unit \ awards.$
- 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 2, 2018 to reporting person of Restricted Stock Unit Award under the Amended and Restated Ionis Pharmaceuticals, Inc. 2002 Non-Employee Directors' Stock Option Plan. Restricted Stock Units vest in four equal annual installments, the first installment vesting on July 2, 2019. 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 2, 2022. The RSU is vested as to 0 shares on July 2, 2018.
- 5. Grant of July 2, 2018 to reporting person of stock options under the Amended and Restated Ionis Pharmaceuticals, Inc. 2002 Non-Employee Directors' Stock Option Plan. The option vests and becomes exercisable in four equal annual installments, the first installment vesting on July 2, 2019. The option shall be fully vested and exercisable on July 2, 2022. The option is exercisable to 0 shares on July 2, 2018.

Remarks:

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

fact

** Signature of Reporting Person

07/03/2018 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.