FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C.	20549
vvasimigton,	D.O.	20040

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL 3235-0287 OMB Number: 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).

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

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1. Name and Address of Reporting Person* MUTO FREDERICK T						2. Issuer Name and Ticker or Trading Symbol IONIS PHARMACEUTICALS INC [IONS]									5. Relationship of Reportin (Check all applicable) X Director			10% Owne		vner	
(Last) 2855 GA	(Last) (First) (Middle) 2855 GAZELLE COURT					Date (est Tran	saction	(Mon	th/C	Day/Year)			Officer (give title below)		Other (specify below)				
(Street)	Street) CARLSBAD CA 92010					4. If Amendment, Date of Original Filed (Month/Day/Year)										Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by Mars they One Reporting.					
(City)	(S	tate)	(Zip)		_												Form filed by More than One Reporting Person				
		Tab	le I - Noi	n-Deri	vative	e Se	curit	ies Ac	quire	d, D	isp	osed o	of, or Bo	enefi	cially	y Owned	t				
Date			Date	nsaction h/Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Year)		Cod	Transaction Code (Instr.				4 and Securi Benefi Owned		es ally Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)			
										le V		Amount	(A) ((D)	r Pı	ice	Transac	Reported Transaction(s) (Instr. 3 and 4)			(III3II. 4)	
Common	Stock			06/1	.5/2021		06/15/2021		М			5,000	(1) A		\$9.3	36,683		.683 D			
Common	Stock			06/1	5/2021	1	06/15/2021		S			5,000	2) D		36.5	31	31,683		D		
Common Stock 06/1				06/1	5/202	1	06/15/2021		M			5,000	1) A		\$9.3	36	36,683		D		
Common Stock 06/15				5/202	2021 0		06/15/2021				5,000(2) D	\$	36.55	31	31,683		D			
Common Stock 06				06/1	5/2021		06/15/2021		М			5,000(1) A		\$9.3	36	36,683		D		
Common Stock 06/15			5/2021	/2021 06		6/15/2021				5,000	2) D	\$	36.85	31	31,683		D				
		7	able II -									sed of, onverti				Owned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deeme Execution if any (Month/Da	Date,	4. Transaction Code (Instr. 8)		5. Number 6		Expirat	6. Date Exercisal Expiration Date (Month/Day/Year)			Amount of Securities Underlying Derivativ	. Title and mount of		8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactic (Instr. 4)	Owners Form: Direct (or Indir	Ownership	Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercis	sable		kpiration ate	Title	Amo or Num of Sha	ber						
Non- Qualified Stock Option (right to buy)	\$9.3	06/15/2021	06/15/2	2021	21 M			5,000	07/01/2	2012	06	6/30/2021	Common Stock	5,0	00	\$0.0	10,000)	D		
Non- Qualified Stock Option (right to buy)	\$9.3	06/15/2021	06/15/2	2021	М			5,000	07/01/2	2012	06	5/30/2021	Common Stock	5,0	00	\$0.0	5,000		D		
Non- Qualified Stock Option (right to buy)	\$9.3	06/15/2021	06/15/2	2021	M			5,000	07/01/2	2012	06	6/30/2021	Common Stock	5,0	00	\$0.0	0		D		

Explanation of Responses:

- 1. Acquired as a result of exercising a stock option that was scheduled to expire on June 30, 2021. The purchase reported on this Form 4 was effected pursuant to a Rule 10b5-1 Trading Plan adopted by the reporting person on September 18, 2020.
- 2. Shares sold pursuant to a Rule 10b5-1 Trading Plan adopted by the reporting person on September 18, 2020.

By: Patrick R. O'Neil, attorneyin-fact For: Frederick T. Muto

** 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.