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 Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person* BENNETT C FRANK						2. Issuer Name and Ticker or Trading Symbol IONIS PHARMACEUTICALS INC [IONS]									all applic Directo Officer	ionship of Reporting Pers all applicable) Director Officer (give title below)			ner pecify	
(Last) (First) (Middle) C/O IONIS PHARMACEUTICALS, INC. 2855 GAZELLE COURT					10/	3. Date of Earliest Transaction (Month/Day/Year) 10/18/2017									SVP, Antisense Research					
(Street) CARLSI (City)			92010 (Zip)		_ 4.	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Indiv Line) X	I					
		Tab	le I - No	n-Deriv	vative	e Se	curit	ies Ac	quired,	Dis	posed o	f, or Be	nefici	ally	Owned					
Date				Date	. Transaction ate Month/Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Year)		Code (Transaction Disposed Code (Instr.		ies Acquire Of (D) (Inst		nd 5) Securitie Benefici Owned F		s ally following	Form (D) o	n: Direct c r Indirect E sstr. 4) (7. Nature of Indirect Beneficial Ownership	
									Code	v	Amount	(A) or (D)	Price	e	Reported Transact (Instr. 3 a	tion(s)			(Instr. 4)	
Common Stock 10/18/						2017 10/18/2017		M ⁽¹⁾		12,250	(1) A	\$10	0.29	27,291			D			
Common	Stock			10/18	8/2017	7	10/1	8/2017	S ⁽¹⁾		12,250	(1) D	\$6	65	15,041 D					
		-	Гable II -								osed of, convertil				wned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	e (Month/Day/Year)	3A. Deeme Execution if any (Month/Da	Date,	4. Transaction Code (Instr 8)				6. Date Exercis Expiration Date (Month/Day/Yea		е	7. Title and Amoun of Securities Underlying Derivative Security (Instr. 3 and 4)		Do	Price of erivative ecurity 1str. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	E C S F Illy C	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisal		Expiration Date	Title	Amour or Number of Shares	er						
Employee Stock Option (right to buy)	\$10.29	10/18/2017	10/18/2	017	М			12,250	01/03/20	15	01/02/2018	Common Stock	12,25	50	\$0	0		D		

Explanation of Responses:

1. Acquired as a result of exercising a stock option that was scheduled to expire on 1/2/2018. The purchase and sale reported on this Form 4 was effective pursuant to a Rule 10b5-1 Trading Plan adopted by the reporting person on 1/27/2017.

Remarks:

/s/B. Lynne Parshall, attorney-

in-fact

** Signature of Reporting Person

10/19/2017

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.