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FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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

OMB APPROVAL										
OMB Number: 3235-028										
Estimated average burden										
hours por response:	0.5									

1. Name and Addre	<u>C FRANK</u>		2. Issuer Name and Ticker or Trading Symbol <u>IONIS PHARMACEUTICALS INC</u> [IONS]		ationship of Reporting Person(s) to Issuer k all applicable) Director 10% Owner Officer (give title Other (speci below) below)		
(Last) C/O IONIS PH 2855 GAZELL		(Middle) ALS, INC.	3. Date of Earliest Transaction (Month/Day/Year) 02/01/2019		SVP, Antisense Research		
(Street) CARLSBAD (City)	CA (State)	92010 (Zip)	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indi Line) X	vidual or Joint/Group Fili Form filed by One Re Form filed by More th Person	porting Person	

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Year) 2A. Deemed Execution Date, if any				, ction Instr.	4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially	6. Ownership Form: Direct (D) or Indirect	7. Nature of Indirect Beneficial	
		(Month/Day/Year)	8) Code V		Amount (A) or (D)		Price	Owned Following Reported Transaction(s) (Instr. 3 and 4)		Ownership (Instr. 4)	
Common Stock	02/01/2019	02/01/2019	M ⁽¹⁾		9,013 ⁽¹⁾	Α	\$14.69	33,541	D		
Common Stock	02/01/2019	02/01/2019	S ⁽¹⁾		9,013 ⁽¹⁾	D	\$58.29 ⁽¹⁾	24,528	D		

 Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

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. Transa Code (8)		of		6. Date Exerc Expiration Da (Month/Day/Y	ate	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	4			
Employee Stock Option (right to buy)	\$14.69	02/01/2019	02/01/2019	М		9,013		01/02/2017	01/29/2020	Common Stock	9,013	\$0	0	D	

Explanation of Responses:

1. Acquired as a result of exercising a stock option pursuant to Rule 10b5-1 Trading Plan. The purchase and sale reported on this Form 4 was effective pursuant to Rule 10b5-1 Trading Plan adopted by the reporting person on 12/8/2017.

Remarks:

<u>/s/Patrick R. O'Neil, attorney-</u>

in-fact

02/05/2019

** 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.