FORM 4

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

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

OMB APPROVAL							
OMB Number: 3235-0287							
Estimated average burden							
hours per response:	0.5						

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940 Instruction 1(b).

1. Name and Address of Reporting Person* BENNETT C FRANK					2. Issuer Name and Ticker or Trading Symbol IONIS PHARMACEUTICALS INC IONS								neck all ap Dire	olicable) ctor	ng Person(s) to I	vner	
(Last) 2855 GA	(Fi	,	(Middle)				3. Date of Earliest Transaction (Month/Day/Year) 02/28/2022							er (give title w) P, Chief Sc	Other (below)	specify	
(Street) CARLSBAD CA 92010 (City) (State) (Zip)					4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)							G. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person				
		Table	I - No	n-Deriva	tive S	Securi	ties Acq	uired	, Dis	posed of,	or Be	neficia	ally Own	ed			
1. Title of Security (Instr. 3) 2. Transac Date (Month/Da			Execution Date,				4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4 5)			Secui Benet Owne	5. Amount of Securities Beneficially Owned Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership				
								Code	v	Amount	(A) or (D)	Price	Reported Transaction(s) (Instr. 3 and 4)			(Instr. 4)	
Common Stock 02/28/				02/28/2	022			J ⁽¹⁾		346	A	\$28.3	73 5	5,233	D		
	Otock																
	Otock	Та	ble II ·					•	•	osed of, c			-	d			

Explanation of Responses:

or Exercise Price of

Derivative

Security

Security (Instr. 3)

1. Reporting shares acquired under the Ionis Pharmaceuticals, Inc. Amended and Restated 2000 Employee Stock Purchase Plan on February 28, 2022. These shares may not be sold until August 28, 2022.

Date

Exercisable

(Month/Day/Year)

Expiration

Date

By: Patrick R. O'Neil, attorney-in-fact For: C. Frank 03/02/2022 **Bennett**

Security (Instr. 5)

Securities Beneficially

Following

Reported

Transaction(s) (Instr. 4)

Owned

Form: Direct (D)

or Indirect

(I) (Instr. 4)

Beneficial

Ownership (Instr. 4)

** Signature of Reporting Person Date

Securities

Derivative

Title

Underlying

Security (Instr. 3 and 4)

Amount Number

Shares

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

if any (Month/Day/Year)

Code (Instr.

8)

Code

Derivative

Securities Acquired

(A) or Disposed

of (D) (Instr. 3, 4 and 5)

(A) (D)

* If the form is filed by more than one reporting person, see Instruction 4 (b)(v).

(Month/Day/Year)

** 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.