FORM 4

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

**OMB APPROVAL** 3235-0287 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

1. Name and Address of Reporting Person* BENNETT C FRANK					ION	2. Issuer Name and Ticker or Trading Symbol IONIS PHARMACEUTICALS INC [ IONS ]									all app Direc Office	tor er (give title	ng Per	10% O	vner	
						3. Date of Earliest Transaction (Month/Day/Year) 08/31/2022								Λ	below EVI				r	
(Street) CARLSI (City)			2010 Zip)		4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)									Form	or Joint/Group Filing (Check Applicable rm filed by One Reporting Person rm filed by More than One Reporting rson				
		Table	I - No	n-Deriva	tive S	Secui	rities	Acq	uired	, Dis	posed of	, or B	enefi	cially	Own	ed				
1. Title of Security (Instr. 3)  2. Transaction Date (Month/Day/						Execution Date,		3. Transaction Code (Instr. 8)  4. Securities Acquire Disposed Of (D) (Ins					Securities Beneficially		Form: Direct		7. Nature of Indirect Beneficial Ownership (Instr. 4)			
									Code	v	Amount	(A) o	r Pric	е	Transa	action(s) 3 and 4)			(111501.4)	
Common Stock 08/31/				08/31/2	022			J <sup>(1)</sup>		183	A	\$28	3.968	5.	5,416		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)	if any	emed tion Date, n/Day/Year)		saction e (Instr. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)  Date Expiration Exercisable Date			7. Title and Amount of Securities Underlying Derivative Security (Instr 3 and 4)  Amount or Number of Title Shares		Der Sec (Ins	Price of ivative urity str. 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)		

## Explanation of Responses:

1. Reporting shares acquired under the Ionis Pharmaceuticals, Inc. Amended and Restated 2000 Employee Stock Purchase Plan on August 31, 2022. These shares may not be sold until February 28, 2023.

By: Patrick R. O'Neil, attorney-in-fact For: C. Frank 09/01/2022 **Bennett** 

\*\* Signature of Reporting Person Date

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

- $^{\star}$  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.