FORM 4

to Section 16. Form 4 or Form 5 obligations may continue. See

Instruction 1(b).

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C.	20549
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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP Check this box if no longer subject

OMB APPROVAL									
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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]									ck all app Direc	,		rson(s) to Is 10% O Other (wner		
l		, ACEUTICALS	Middle)		3. Date of Earliest Transaction (Month/Day/Year) 02/26/2021								X	belov	v) Chief Scien	ntific	below) Officer				
2855 GAZELLE CT.						If Amendment, Date of Original Filed (Month/Day/Year)								6. Inc	6. Individual or Joint/Group Filing (Check Applicable						
(Street)	BAD, CA	A 9	2010			T. II / Michaeliche, Sace of Signal Flied (World Buy) Tear)							Line)	Form	Form filed by One Reporting Person Form filed by More than One Reporting Person						
(City)	(St	ate) (2	Zip)												reisc) i i					
		Table	I - No	n-Deriva	tive S	Secu	rities	Acq	uired,	Dis	posed of	, or E	Bene	ficial	y Own	ed					
1. Title of Security (Instr. 3) 2. Transact Date (Month/Day						Execution Date,		Date,	3. Transaction Code (Instr. 8) 4. Securities Acquired Disposed Of (D) (Instr. 5)				Securit Benefic	rities Formation		n: Direct or Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)				
										v	Amount	(A) (D)	or P	rice	Transa	action(s) 3 and 4)			(1130.4)		
Common Stock 02/26/					2021 02/26/2021		021	J ⁽¹⁾		112	A	. \$	\$44.54	54 42,620			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)	erivative Conversion Date Execution Date, ecurity or Exercise (Month/Day/Year) if any			Transaction Code (Instr.		vative vrities valired r osed) r. 3, 4	6. Date Exerc Expiration Da (Month/Day/Y		ate Amount of		str.	Price of erivative ecurity nstr. 5)		Ownershi Form: y Direct (D) or Indirec (I) (Instr. 4	Ownership	Beneficial Ownership t (Instr. 4)					
					Code	Code V (A) (D)		Date Exercis	able	Expiration Date											

Explanation of Responses:

1. Reporting 112 shares acquired under the Ionis Pharmaceuticals, Inc. Amended and Restated 2000 Employee Stock Purchase Plan on February 26, 2021. These 112 shares may not be sold until August 26, 2021.

Remarks:

/s/Patrick R. O'Neil, attorney-

** Signature of Reporting Person

in-fact

03/02/2021

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.