Instruction 1(b).

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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Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

Beneficial Ownership (Instr. 4)

Form: Direct (D)

or Indirect

(I) (Instr. 4)

					or Sec	ction 30	(h) of the I	nvestme	ent Co	mpany Act of	f 1940					
Name and Address of Reporting Person* Geary Richard S				2. Issuer Name and Ticker or Trading Symbol IONIS PHARMACEUTICALS INC [IONS]											wner (specify	
(Last) 2855 GA	,	(First) (Middle) ELLE COURT				3. Date of Earliest Transaction (Month/Day/Year) 02/28/2022							belov	below) below) EVP, Chief Development Officer		
(Street) CARLSBAD CA 92010				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				
(City)	(Si		Zip)													
Table I - Non-Deriva 1. Title of Security (Instr. 3) 2. Transacti Date (Month/Day.				tion y/Year)	on 2A. Deemed Execution Date,		3. 4. Securities A. Transaction Code (Instr. 5)		Acquired (A) o		5. Amo Securi Benefi	ount of ties cially	6. Ownership Form: Direct (D) or Indirect	7. Nature of Indirect Beneficial Ownership		
						(MOTILIT	<i>п</i> раугтеаг)	8) Code	v	Amount	(A) or (D)	Price	Reported (Instr. 4)			
Common Stock 02/28/2			.022			J ⁽¹⁾		621	A	\$28.3	73 5	6,373	D			
		Та	ble II -							osed of, c				d		
1. Title of Derivative	2. Conversion	3. Transaction	3A. De	emed tion Date.	4. Transac	5. Number 6. Date Exercisable and 7. Title an			8. Price of Derivative	9. Number	of 10. Ownership	11. Nature				

(Month/Day/Year)

Expiration

Date

Explanation of Responses:

or Exercise Price of Derivative

Security

Security (Instr. 3)

(Month/Day/Year)

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

By: Patrick R. O'Neil, 03/02/2022 attorney-in-fact For: Richard S. Geary

Security (Instr. 5)

Owned

Following Reported

Transaction(s) (Instr. 4)

Securities Beneficially

** Signature of Reporting Person Date

Securities

Title

Underlying Derivative

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).
- ** 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.