SEC Form 4	
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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 STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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 [*] Geary Richard S				suer Name and Ticl NIS PHARM IS]			(Checł	ationship of Reportin (all applicable) Director Officer (give title	10% 0	
(Last) 2855 GAZELL	(First) E COURT	(Middle)		ate of Earliest Trans	saction (Month	/Day/Year)	X	below) EVP, Chief Dev	below)
(Street) CARLSBAD	СА	92010	4. lf /	Amendment, Date o	of Original File	d (Month/Day/Year)	6. Indiv Line) X	vidual or Joint/Grou Form filed by On Form filed by Mo	e Reporting Per	son
(City)	(State)	(Zip)						Person		sorting
		Table I - No	n-Derivative \$	Securities Acc	quired, Dis	posed of, or Benet	ficially	v Owned		
1. Title of Security (Instr. 3) 2. Transact Date (Month/Day				2A. Deemed Execution Date, if any	3. Transaction Code (Instr.	4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 5)		5. Amount of Securities Beneficially	6. Ownership Form: Direct (D) or Indirect	7. Nature of Indirect Beneficial

	(Month/Day/rear)	(Month/Day/Year)	8)				Ownership (Instr. 4)			
			Code	v	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		(1150.4)
Common Stock	02/28/2023		J ⁽¹⁾		575	A	\$30.515	72,960	D	

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

	(3), F,,,,,,																
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 Deriv Secu Acqu (A) o Disp of (D (Inst	5. Number of Derivative Securities Acquired A) or Disposed of (D) Instr. 3, 4 and 5)		Expiration Date Ar			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						

Explanation of Responses:

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

By: Patrick R. O'Neil,

03/01/2023 attorney-in-fact For: Richard

S. Geary

** 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.