FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

l	OMB APPE	ROVAL
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0.5

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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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 Addr			NIS PHARMA		_	,				Owner (specify				
(Last) C/O IONIS PH 2855 GAZELL		11/1	te of Earliest Transa 4/2016			,		SVP, Legal & General Counsel						
(Street) CARLSBAD (City)	CA (State)	92010 (Zip)	4. 7	anendment, Date of	Origina	i Filed	(монилоаул	Line)	, ,					
		Table I - No	n-Derivative	Securities Acq	uired,	Dis	posed of,	or Ben	eficially	Owned				
1. Title of Security	y (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Disposed Of 5)			5. Amount of Securities Beneficially Ownered	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			11/14/2016	11/14/2016	M ⁽¹⁾		194(1)	A	\$10.82	9,720	D			
Common Stock		11/14/2016	11/14/2016	S ⁽¹⁾		194(1)	D	\$45	9,526	D				
Common Stock		11/14/2016	11/14/2016	M ⁽¹⁾		806(1)	A	\$10.82	10,332	D				
Common Stock Common Stock Common Stock			11/14/2016	11/14/2016	S ⁽¹⁾		806(1)	D	\$45	9,526	D			

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

(**3) [**********************************															
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)			6. Date Exerci Expiration Dat (Month/Day/Ye	te	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		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				
Employee Stock Option (right to buy)	\$10.82	11/14/2016	11/14/2016	М			194	01/02/2014 ⁽²⁾	01/01/2020	Common Stock	194	\$0	4,907	D	
Employee Stock Option (right to buy)	\$10.82	11/14/2016	11/14/2016	M			806	01/02/2014 ⁽³⁾	01/01/2020	Common Stock	806	\$0	2,694	D	

Explanation of Responses:

- 1. Acquired as a result of exercising a stock option pursuant to Rule 10b5-1 Trading Plan. The purchase and sale reported on this Form 4 was effective pursuant to Rule 10b5-1 Trading Plan adopted by the reporting person on 9/21/2015.
- 2. Grant of 1/2/2013 to reporting person of stock options under the Ionis Pharmaceuticals, Inc. 1989 Stock Option Plan. 25% of the shares subject to the option vested and became exercisable on 1/2/2014. Thereafter, the remaining shares subject to the option vest and become exercisable in 36 equal monthly installments, at the rate of 3,925 shares per year. Following this transaction, the option was exercisable as to 4,252 on 11/14/2016.
- 3. Grant of 1/2/2013 to reporting person of stock options under the Ionis Pharmaceuticals, Inc. 1989 Stock Option Plan. 25% of the shares subject to the option vested and became exercisable on 1/2/2014. Thereafter, the remaining shares subject to the option vest and become exercisable in 36 equal monthly installments, at the rate of 1,875 shares per year. Following this transaction, the option was exercisable as to 2,381 on 11/14/2016.

Remarks:

/s/Patrick R. O'Neil

11/14/2016

** 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.

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