FORM 4

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

OIVID APPROVAL								
OMB Number:	3235-028							
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0.5

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

							,										
Name and Address of Reporting Person*     Hayden Michael R					2. Issuer Name and Ticker or Trading Symbol IONIS PHARMACEUTICALS INC [ IONS ]							5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
<u>nayuen wiicilder K</u>											X	Director			10% Ow	/ner	
(Last)	`	irst) IACEUTICALS	(Middle)		3. Date of Earliest Transaction (Month/Day/Year) 07/01/2019							Officer ( below)	give title	Other (s below)	Other (specify below)		
2855 GAZELLE COURT																	
2855 GAZELLE COURT					4. If Amendment, Date of Original Filed (Month/Day/Year)							6. Individual or Joint/Group Filing (Check Applicable					
(Street)											Line)	<b>,</b>					
(Street) CARLSBAD CA 92010										2	X Form filed by One Reporting Person  Form filed by More than One Reporting						
CARLSDAD CA 52010										Form fill Person		e tnan	One Report	ing			
(City)	(S	tate)	(Zip)														
		Та	ble I - Non-D	erivat	ive S	ecuriti	es A	cquired,	Dis	posed of,	or Ben	eficially	Owned				
1. Title of Security (Instr. 3)  2. Transa Date (Month/D				te	Execution Date,		Code	Transaction Disposed Of (D) (Instr. 3, 4)			Beneficial Owned Fo	lly	Form:	Direct Indirect I	7. Nature of Indirect Beneficial Ownership		
							Code	v	Amount	(A) or (D)	Price	Transaction	Reported Transaction(s) (Instr. 3 and 4)		[	(Instr. 4)	
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	Exercise (Month/Day/Year) if any Code (Month/Day/Year) Code 8)			5. Number of Expiration Date Expiration Date (Month/Day/Year) Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)			le and 7. Title and Amor of Securities Underlying Derivative Secur (Instr. 3 and 4)		ies g Security	8. Price of Derivative Security (Instr. 5)	9. Numbe derivative Securities Beneficia Owned Following Reported Transacti (Instr. 4)	e s ally	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)		
									$\top$			Amount	1				
				Code	v	(A)	(D)	Date Exercisabl		expiration Pate	Title	or Number of Shares					
Restricted Stock Units	(1)	07/01/2019	07/01/2019	A		7,110		(2)		(2)	Common Stock	7,110	\$0	7,110	)	D	
Director Stock Option (right to buy)	\$64.8	07/01/2019	07/01/2019	A		16,000		07/01/2020	(3)	6/30/2029 <sup>(3)</sup>	Common Stock	16,000	\$0	16,00	0	D	

## **Explanation of Responses:**

- 1. Each Restricted Stock Unit represents a contingent right to receive one share of Ionis common stock, or its equivalent cash value.
- 2. Grant of July 1, 2019 to reporting person of Restricted Stock Unit Award under the Amended and Restated Ionis Pharmaceuticals, Inc. 2002 Non-Employee Directors' Stock Option Plan. Restricted Stock Units vest in four equal annual installments, the first installment vesting on July 1, 2020. Upon vesting, the restricted stock units will be paid out in whole shares of Ionis common stock or cash as may be determined by the Company. The RSU shall be fully vested on July 1, 2023. The RSU is vested as to 0 shares on July 1, 2019.
- 3. Grant of July 1, 2019 to reporting person of stock options under the Amended and Restated Ionis Pharmaceuticals, Inc. 2002 Non-Employee Directors' Stock Option Plan. The option vests and becomes exercisable in four equal annual installments, the first installment vesting on July 1, 2020. The option shall be fully vested and exercisable on July 1, 2023. The option is exercisable to 0 shares on July 1, 2019.

## Remarks:

/s/Patrick R. O'Neil, attorney-in-07/03/2019

fact

\*\* 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.