FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

l	OMB APPE	ROVAL							
l	OMB Number:	3235-0287							
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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 5. Relationship of Reporting Person(s) to Issuer 2. Issuer Name and Ticker or Trading Symbol 1. Name and Address of Reporting Person (Check all applicable) IONIS PHARMACEUTICALS INC [ IONS ] **BENNETT C FRANK** Director 10% Owner Officer (give title Other (specify below) below) 3. Date of Earliest Transaction (Month/Day/Year) (Middle) (Last) (First) Chief Scientific Officer 01/02/2020 C/O IONIS PHARMACEUTICALS, INC. 2855 GAZELLE COURT 4. If Amendment, Date of Original Filed (Month/Day/Year) 6. Individual or Joint/Group Filing (Check Applicable Line) (Street) X Form filed by One Reporting Person 92010 **CARLSBAD** CA Form filed by More than One Reporting (City) (State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 1. Title of Security (Instr. 3) 2. Transaction 2A. Deemed 5. Amount of 6. Ownership 7. Nature of Execution Date, Transaction Form: Direct Securities (Month/Day/Year) (D) or Indirect (I) (Instr. 4) Beneficial if anv Code (Instr. 5) Beneficially Owned Following Ownership (Instr. 4) (Month/Day/Year) 8) Reported (A) or (D) Transaction(s) Price Code Amount (Instr. 3 and 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	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transa Code ( 8)			6. Date Exercisable and Expiration Date (Month/Day/Year)		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	\$60.89	01/02/2020	01/02/2020	A		48,626		01/02/2021 <sup>(1)</sup>	01/01/2027	Common Stock	48,626	\$0	48,626	D	

### **Explanation of Responses:**

1. Grant on 01/02/2020 to reporting person of stock options under the Ionis Pharmaceuticals, Inc. Amended and Restated 2011 Equity Incentive Plan. Following this transaction, the option was exercisable as to 0 shares on 01/02/2020. 25% of the shares subject to the option will vest and become exercisable on 01/02/2021. Thereafter, the remaining shares subject to the option will vest and become exercisable in 36 equal monthly installments over the next 3 years.

## Remarks:

buy)

/s/Patrick R. O'Neil, attorneyin-fact

\*\* Signature of Reporting Person Date

01/03/2020

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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