FORM 3

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL

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## INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

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* <u>Baroldi Joseph</u>	2. Date of Requiring S (Month/Da	Statement y/Year)	3. Issuer Name and Ticker or Trading Symbol IONIS PHARMACEUTICALS INC [ IONS ]					
(Last) (First) (Middle) 2855 GAZELLE COURT	01/31/20.	22	4. Relationship of Reporting Issuer (Check all applicable)  Director  Officer (give	10% Owner Other (specify below)		5. If Amendment, Date of Original Filed (Month/Day/Year)  6. Individual or Joint/Group Filing (Check Applicable Line)  X Form filed by One Reporting Person Form filed by More than One Reporting Person		
(Street) CARLSBAD CA 92010	_		X title below)  Chief Business					
(City) (State) (Zip)								
Т	able I - Nor	n-Derivati	ive Securities Benefic	cially Ov	vned			
1. Title of Security (Instr. 4)			2. Amount of Securities Beneficially Owned (Instr. 4)	3. Owner Form: D (D) or Ir (I) (Instr	Direct Ov Indirect		Nature of Indirect Beneficial wnership (Instr. 5)	
Common Stock			3,613		)			
Common Stock			322	I	I by S		Spouse	
(e.ç			e Securities Beneficia nts, options, converti					
1. Title of Derivative Security (Instr. 4)	2. Date Exercisable and Expiration Date (Month/Day/Year)		3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)		4. Convers	cise	e Form:	6. Nature of Indirect Beneficial Ownership (Instr.
	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	Price of Derivative Security		Direct (D) or Indirect (I) (Instr. 5)	5)
Non-Qualified Stock Option (right to buy)	01/03/2023 <sup>(1)</sup>	01/02/2032	Common Stock	2,849	32.6		I	by Spouse
Non-Qualified Stock Option (right to buy)	01/04/2022 <sup>(2)</sup>	01/03/2028	Common Stock	4,924	56.7	8	I	by Spouse
Restricted Stock Unit	(3)	(3)	Common Stock	3,066	0.04	4)	I	by Spouse

## Explanation of Responses:

- 1. Grant on 01/03/2022 to reporting person's spouse of stock options under the Ionis Pharmaceuticals, Inc. Amended and Restated 2011 Equity Incentive Plan. 25% of the shares subject to the option will be vested and become exercisable on 01/03/2023. Thereafter, the remaining shares subject to the option will vest and become exercisable in 36 equal monthly installments, at a rate of 712 shares per year. The option is exercisable as to 0 shares on 01/31/2022.
- 2. Grant on 01/04/2021 to reporting person's spouse of stock options under the Ionis Pharmaceuticals, Inc. Amended and Restated 2011 Equity Incentive Plan. 25% of the shares subject to the option vested and became exercisable on 01/04/2022. Thereafter, the remaining shares subject to the option will vest and become exercisable in 36 equal monthly installments, at a rate of 1,231 shares per year. The option is exercisable as to 1,231 shares on 01/31/2022.
- 3. Grants to reporting person's spouse of Restricted Stock Units under the Ionis Pharmaceuticals, Inc. 2011 Equity Incentive Plan on January 15, 2021 and January 15, 2022. The restricted stock units vest in four equal annual installments. 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.
- 4. Each Restricted Stock Unit represents a contingent right to receive one share of Ionis common stock, or its equivalent cash value.

By: Patrick R. O'Neil, attorney-in-fact For:

02/01/2022

<u>Joseph T. Baroldi</u>

\*\* Signature of Reporting

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 5 (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.