## SEC Form 5

Instruction 1(b).

FORM 5

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See

UNITED STATES SECURITIES AND EX	EXCHANGE COMMISSION
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Washington, D.C. 20549 ANNUAL STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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IF

Form 3 Holdings Reported  $\Box$ Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940  $\square$ Form 4 Transactions Reported. 2. Issuer Name and Ticker or Trading Symbol 5. Relationship of Reporting Person(s) to Issuer 1. Name and Address of Reporting Person' (Check all applicable) **IONIS PHARMACEUTICALS INC** [ IONS ] **KLEIN JOSEPH III** х Director 10% Owner Officer (give title Other (specify below) below) 3. Statement for Issuer's Fiscal Year Ended (Month/Dav/Year) (Last) (First) (Middle) 12/31/2021 2855 GAZELLE COURT 4. If Amendment, Date of Original Filed (Month/Day/Year) (Street) 6. Individual or Joint/Group Filing (Check Applicable Line) Х Form filed by One Reporting Person CARLSBAD CA 92010 Form filed by More than One Reporting Person (City) (State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 1. Title of Security (Instr. 3) 2. Transaction 2A. Deemed 4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5) 5. Amount of 6. Ownership 7. Nature of Transaction Code (Instr. Date (Month/Day/Year) Execution Date Securities Form: Direct (D) or Indirect Indirect Beneficial Beneficially Owned if anv at end of Issuer's Fiscal Year (Instr. 3 Ownership (Instr. 4) (Month/Day/Year) 8) (I) (Instr. 4) (A) or (D) Price Amount and 4) 6,000(1) Common Stock 11/30/2021 **G**<sup>(1)</sup> D \$<mark>0.0</mark> 12,126 D **G**<sup>(1)</sup> Common Stock 11/30/2021 6,000(1) A \$<mark>0.0</mark> 6,000 I by Trust by Son<sup>(2)</sup> Common Stock 100 I Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities) 6. Date Exercisable and Expiration Date (Month/Day/Year) 3A. Deemed Execution Date, if any 7. Title and Amount of Securities 9. Number of derivative Securities 1. Title of Derivative 3. Transaction Date 5. Number of 8. Price of Derivative 11. Nature of Indirect 10. Z. Conversion Ownership Form: Trans actior Derivative Securities Acquired (Month/Day/Year) Security or Exercise Price of Code (Instr. Security (Instr. 5) Beneficial 8) (A) or Disposed of (D) (Instr. 3, 4 and 5) Direct (D) (Instr. 3) (Month/Dav/Year) Underlving Beneficially Ownership Derivative Derivative Owned or Indire (Instr. 4) Security Following Reported Security (Instr. 3 and 4) (I) (Instr. 4) Amount Transaction(s) (Instr. 4) Number Expiration Date of Shares Date (A) (D) Exercisable Title Non Qualified Stock **G**<sup>(3)</sup> Commo \$24.42 11/30/2021 12,000<sup>(3)</sup> 07/01/2017 06/30/2026 12.000 \$0.0 0 D Option Stock (right to buy) Non Qualified tock G<sup>(3)</sup> 07/02/2019<sup>(4)</sup> Commor  $12\,000^{(3)}$ \$42.88 11/30/2021 07/01/2028 12.000 \$0.0 4.000 D Option Stock (right to buy) Non-Qualified Stock **G**<sup>(3)</sup> Commor \$52.22 11/30/2021 16,000<sup>(3)</sup> 07/03/2018 07/02/2027 16,000 0 D \$<mark>0.0</mark> Ontion Stock (right to buy) Non-Qualified . tock Commor Stock 16,000<sup>(3)</sup> \$57.16 11/30/2021 **G**<sup>(3)</sup> 07/01/2016 06/30/2025 16,000 0 D \$<mark>0.0</mark> Option (right to buy) Non-Qualified Stock Commo  $G^{(3)}$ \$60.2 11/30/2021 12.000<sup>(3)</sup> 07/01/2021 06/30/2030 12,000 \$<mark>0.0</mark> 0 D Option Stock (right to buy) Non Qualified Stock G<sup>(3)</sup> 07/01/2020<sup>(5)</sup> Commor 8 000<sup>(3)</sup> 8.000 \$64.8 11/30/2021 06/30/2029 8.000 \$0.0 D Option (right to Stock buy) Non Qualified **G**<sup>(3)</sup> Stock Common \$24.42 11/30/2021 12,000<sup>(3)</sup> 07/01/2017 06/30/2026 12,000 \$0.0 12,000 by Trust T Option Stock (right to buy) Non-Qualified Stock \$42.88 11/30/2021 **G**<sup>(3)</sup> 12,000<sup>(3)</sup> 12,000 07/02/2019 07/01/2028 12,000 \$<mark>0.0</mark> by Trust I Option Stock (right to buy)

	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. Transaction Code (Instr. 8)	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		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	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		
					(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares		Reported Transaction(s) (Instr. 4)		
Non- Qualified Stock Option (right to buy)	<b>\$</b> 52.22	11/30/2021		G <sup>(3)</sup>	16,000 <sup>(3)</sup>		07/03/2018	07/02/2027	Common Stock	16,000	\$0.0	16,000	I	by Trust
Non- Qualified Stock Option (right to buy)	\$57.16	11/30/2021		G <sup>(3)</sup>	16,000 <sup>(3)</sup>		07/01/2016	06/30/2025	Common Stock	16,000	\$0.0	16,000	I	by Trust
Non- Qualified Stock Option (right to buy)	\$60.2	11/30/2021		G <sup>(3)</sup>	12,000 <sup>(3)</sup>		07/01/2021	06/30/2030	Common Stock	12,000	\$0.0	12,000	I	by Trust
Non- Qualified Stock Option (right to buy)	\$64.8	11/30/2021		G <sup>(3)</sup>	8,000 <sup>(3)</sup>		07/01/2020	06/30/2029	Common Stock	8,000	\$0.0	8,000	I	by Trust

Explanation of Responses:

1. The reported transaction reflects the gift of shares to trusts for the benefit of the reporting person's three children, of which the reporting person's wife is a trustee.

2. The reporting person disclaims beneficial ownership of all securities held by his son, and this report should not be deemed an admission that the reporting person is the beneficial owner of such securities for purposes of Section 16 or for any other purpose.

3. The reported transactions reflect the gift of vested stock options to trusts for the benefit of the reporting person's three children, of which the reporting person's wife is a trustee.

4. Grant of 7/2/18 to reporting person of stock options under the Ionis Pharmaceuticals, Inc. 2002 Non-Employee Directors' Stock Option Plan. The option vests and becomes exercisable in four equal annual installments, with the first installment vesting on 7/2/19. The option shall be fully vested and exercisable on 7/2/22. The option was exercisable as to 12,000 shares on 11/30/21.

5. Grant of 7/1/19 to reporting person of stock options under the Ionis Pharmaceuticals, Inc. 2002 Non-Employee Directors' Stock Option Plan. The option vests and becomes exercisable in four equal annual installments, with the first installment vesting on 7/1/20. The option shall be fully vested and exercisable on 7/1/23. The option was exercisable as to 8,000 shares on 11/30/21.

<u>By: Patrick R. O'Neil, attorney-</u> <u>in-fact For: Joseph Klein III</u> 02/09/2022

\*\* 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.