## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL

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FORM 4

## 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 Addre		Person <sup>*</sup>		2. Issuer Name and Ti IONIS PHARM		ig Symbol ICALS INC [ IONS	(Check	tionship of Reportin all applicable) Director Officer (give title	ssuer Dwner (specify	
(Last) (First) (Middle) 2855 GAZELLE CT.				3. Date of Earliest Trat 11/03/2020	nsaction (Mor	th/Day/Year)	X	below) Chief Scien	(specify )	
(Street) CARLSBAD	СА	92010		4. If Amendment, Date	e of Original F	led (Month/Day/Year)	6. Indiv Line) X	idual or Joint/Group Form filed by One Form filed by Mor Person	e Reporting Pers	son
(City)	(State)	(Zip)								
		Table I - I	Non-Deriva	tive Securities A	cquired, D	isposed of, or Benefi	cially (	Owned		
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Y				Execution Date,	3. Transaction Code (Instr. 8)	4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 an	d 5)	5. Amount of Securities Beneficially Owned Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership

	(Month/Day/Year)	(Month/Day/Year)	8)	instr.					(I) (Instr. 4)	Ownership (Instr. 4)
			Code	v	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		(1150.4)
Common Stock	11/03/2020	11/03/2020	М		15,000(1)	A	\$39.87	47,476	D	
Common Stock	11/03/2020	11/03/2020	S		15,000(1)	D	\$46.7733 <sup>(2)</sup>	32,476	D	

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)		n of E		6. Date Exerc Expiration D (Month/Day/Y	ate	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)	\$39.87	11/03/2020	11/03/2020	М			15,000	01/02/2018	01/01/2021	Common Stock	15,000	\$0.0	15,000	D	

## Explanation of Responses:

1. Acquired as a result of exercising a stock option pursuant to a Rule 10b5-1 Trading Plan. The purchase and sale reported on this Form 4 was effective pursuant to a Rule 10b5-1 Trading Plan adopted by the reporting person on May 14, 2020.

2. The price reported in column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$46.50-\$46.90, inclusive. The reporting person undertakes to provide to Ionis Pharmaceuticals, Inc., any security holder of Ionis Pharmaceuticals, Inc. or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the ranges set forth in footnote (2) of this Form 4.

## **Remarks:**

/s/Patrick R. O'Neil, attorney-11/05/2020 in-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.

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