FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

## **STATEMENT**


OF CHANGES IN BENEFICIAL OWNERSHIP	OMB Number:	3235-0287	
	Estimated average burde	en	
cuent to Section 16(a) of the Securities Evolungs Act of 1024	hours per response:	0.5	

**OMB APPROVAL** 

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

Filed pursuant to Section 16(a) of the Securities Exchange Act of Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person*  BENNETT C FRANK  (Last) (First) (Middle)  C/O IONIS PHARMACEUTICALS, INC.					3. [	ONIS	of Earliest	RM	ACEU	TIC	Symbol ALS IN Day/Year)		Directo Officer below)	,		10% Owner Other (specify below)		
	ZELLE CO	OURT			4.1	If Ame	endment, I	Date c	of Origina	l Filed	l (Month/Day	y/Year)	6. In	dividual or J	oint/Group	Filing	(Check App	olicable
(Street) CARLSI	BAD C.	A	92010		_									_	led by Mor		rting Persor One Repor	I
(City)	(S	tate)	(Zip)															
		Tal	ole I - Non	-Deriv	vativ	e Se	curitie	s Ac	quired	, Dis	posed o	f, or Ber	neficiall	y Owned				
Date			2. Trans Date (Month/I		Execution Date,		Transaction Disposed Code (Instr.		ies Acquired (A) or Of (D) (Instr. 3, 4 and 5)		Beneficially Owned Following		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership			
						Code	v	Amount	(A) or (D)	Price	Reported Transaction(s) (Instr. 3 and 4)				(Instr. 4)			
Common	Stock			01/01	1/201	/2017 01/01/2017		J <sup>(1)</sup>	V	211(1)	A	\$20.75	7 11,	11,014		D		
			Table II - D								osed of, convertib			Owned				
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)		of		6. Date Exercisable an Expiration Date (Month/Day/Year)		•	7. Title and Am of Securities Underlying Derivative Secu (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	e s Illy J	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)
					Code	v	(A)		Date Exercisal		Expiration Date	Title	Amount or Number of Shares					
Employee Stock Option (right to	\$47.34	01/03/2017	01/03/201	.7	A		45,225		01/03/201	18 <sup>(2)</sup>	01/02/2024	Common Stock	45,225	\$0	45,22	5	D	

## **Explanation of Responses:**

- 1. Reporting 211 shares acquired under the Ionis Pharmaceuticals, Inc. Amended and Restated 2000 Employee Stock Purchase Plan on January 1, 2017. These 211 shares may not be sold until July 2, 2017.
- 2. Grant of 1/3/2017 to reporting person of stock options under the Ionis Pharmaceuticals, Inc. 2011 Equity Incentive Plan. 25% of the shares subject to the option vest and become exercisable on 1/3/2018. Thereafter, the remaining shares subject to the option vest and become exercisable in 36 equal monthly installments, at the rate of 11,306 shares per year. Following this transaction, the option was exercisable as to 0 on 1/3/2017.

## Remarks:

/s/C. Frank Bennett

\*\* Signature of Reporting Person Date

01/04/2017

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.