### FORM 5

Check this box if no longer subject to

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington,	D.C.	20549

Washington, D.C. 20549	
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# **OMB APPROVAL** ANNUAL STATEMENT OF CHANGES IN BENEFICIAL

$\cup$	obligations may continue. See Instruction 1(b).
$\Box$	Form 3 Holdings Reported.

**OWNERSHIP** 

OMB Number:	3235-0362						
Estimated average burden							
hours per response:	1.0						

Form 4 Transactions Reported.

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934

U 181114	Transactions is	ecporteu.		or Section	1 30(h)	of the	Invest	ment C	ompany Ac	t of 1940	)							
1. Name and Address of Reporting Person*  CROOKE STANLEY T				2. Issuer Name and Ticker or Trading Symbol IONIS PHARMACEUTICALS INC [ IONS							5. Relationship of Reporting Person(s) to Issuer (Check all applicable)							
CROOKE STAINLET I				i								X Dire		rector		10%	Owner	
(Last)	(Fir	st) (I	Middle)	,							X	Constitution of the Market No. 1 Constitution of the Market No. 2		Э	Othe belo	er (specify w)		
C/O ION	IS PHARM	ACEUTICALS,	INC.		3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year)						Year)	<b>Executive Chairman of Board</b>						
l	ZELLE CO			12/31/20	12/31/2019													
				4 If Amen	4. If Amendment, Date of Original Filed (Month/Day/Year) 6. Individual or Joint/Group Filing (Check Applicable													
(Street)				,	uo,	Date	J. Jg		(	ayr rou		_ine)	riada. o		ар :	9 (000	, , , , , , , , , , , , , , , , , , , ,	
CARLSB	BAD CA	. 9	2010									X	Form	filed by O	ne Re	porting Pe	erson	
				=										n filed by M	lore th	an One R	eporting	
(City)	(Sta	ate) (2	Zip)		Person													
		Tabl	e I - Non-Deriv	ative Sec	uritie	s Ac	quire	ed, Di	sposed	of, or	Benefici	ially	Owne	ed				
1. Title of Security (Instr. 3)  2. Transaction Date (Month/Day/Year)				Transaction Code (Instr. 8)  Of (D) (Instr. 3, 4 and (A)			or Disposed	Securiti Benefic		ies Ow		ership n: Direct	7. Nature of Indirect Beneficial Ownership					
						Amou	nt	(A) or (D)	A) or D) Price		Issuer's			ect (I)	(Instr. 4)			
Common	Stock		12/06/2019	12/06/20	12/06/2019 G <sup>(1)</sup> 25,000 D \$6		\$0	700,391			I	By trust						
	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)	Transaction of Exp			Expir	ate Exercisable and ration Date th/Day/Year)  To Title and Amount of Securities Underlying Derivative Security (Instrand 4)			int of ities rlying ative ity (Instr. 3	8. Price of Derivative Security (Instr. 5)				10. Ownershi Form: Direct (D) or Indirec (I) (Instr. 4	Beneficial Ownership t (Instr. 4)	
					(A)	(D)	Date Exerc	cisable	Expiration Date	Title	Amount or Number of Shares							

### **Explanation of Responses:**

1. Represents a bona fide gift to a charitable organization.

#### Remarks:

/s/Patrick R. O'Neil, attorney-

01/03/2020

in-fact

\*\* Signature of Reporting Person

Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

- $^{\star}$  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.