FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT	OF CHANGES	S IN BENEFICIAL	OWNERSHIP

OMB APPROVAL								
OMB Number: 3235-02								
Estimated average burden								
hours per response:	0.5							

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 1934 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person* <u>CROOKE STANLEY T</u>					2. Issuer Name and Ticker or Trading Symbol IONIS PHARMACEUTICALS INC [IONS]						S] (Che	Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner					
	,	irst) MACEUTICALS DURT	(Middle) , INC.		3. Date of Earliest Transaction (Month/Day/Year) 01/02/2020						Officer (give title below) Executive Chairman of Boa				`		
(Street) CARLSE		A State)	92010 (Zip)	4	4. If Amendment, Date of Original Filed (Month/Day/Year)					Line	dividual or Joint/Group Filing (Check Applicable) X Form filed by One Reporting Person Form filed by More than One Reporting Person						
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																	
1. Title of Security (Instr. 3) 2. Transa Date (Month/D			е	action 2A. Deemed Execution Date, if any (Month/Day/Year)		Code (In	4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4) Disposed Of (D) (Instr. 3)			5. Amount Securities Beneficial Owned For Reported	ly	Form:	Direct Indirect tr. 4)	7. Nature of Indirect Beneficial Ownership			
					Code V Amount (A) or P				Price	Transaction	Transaction(s) (Instr. 3 and 4)		(Instr. 4)				
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)		Derivative E		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amou of Securities Underlying Derivative Securit (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported	ly	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)	
				Code	v	(A)	(D)	Date Exercisable		xpiration ate	Title	Amount or Number of Shares		Transactio (Instr. 4)			
Employee Stock Option (right to buy)	\$60.89	01/02/2020	01/02/2020	A		141,709		01/02/2021 ⁽¹	0	1/01/2027	Common Stock	141,709	\$0	141,709	9	D	
Employee Stock Option (right to buy)	\$60.89	01/02/2020	01/02/2020	A		12,477		01/02/2021 ⁽¹	0	1/01/2027	Common Stock	12,477	\$0	12,477	,	I	By wife

1. Grant on 01/02/2020 to reporting person or reporting person's wife (as indicated) of stock options under the Ionis Pharmaceuticals, Inc. Amended and Restated 2011 Equity Incentive Plan. Following this transaction, the option was exercisable as to 0 shares on 01/02/2020. 25% of the shares subject to the option will vest and become exercisable on 01/02/2021. Thereafter, the remaining shares subject to the option will vest and become exercisable in 36 equal monthly installments over the next 3 years.

Remarks:

/s/Patrick R. O'Neil, attorney-in-01/03/2020

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.

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.