FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C.	20549	
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STATEMENT	OF CHANGES	IN BENEFICIAL	OWNERSHIP
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OMB APPROVAL								
OMB Number: 3235								
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

Name and Address of Reporting Person*				2. Issuer Name and Ticker or Trading Symbol IONIS PHARMACEUTICALS INC [IONS]							5. Relationship of Reporting Person(s) to Issuer (Check all applicable)						
Monia	Brett P			- 1	01 (1	<u> </u>		TOBO II	CIIL	11 (<u>o</u> [101	,] >	Director			10% Ow	ner
(Last)	(F	First)	(Middle)	_	Date of Earliest Transaction (Month/Day/Year)							Officer (below)	give title		Other (s below)	pecify	
C/O IONIS PHARMACEUTICALS, INC.					01/04/2021						Chief Executive Officer						
2855 GA	ZELLE CI	Γ.	,														
-					4. If Amendment, Date of Original Filed (Month/Day/Year)						6. Individual or Joint/Group Filing (Check Applicable						
(Street)												Line					
CARLSI	BAD, C	^L A	92010)	_	ed by One I	•	Ü	
-													Person	ed by More	tnan C	ле кероп	ing
(City)	(8	State)	(Zip)														
		Та	ıble I - Non-D	Derivat	ive S	ecuritie	s Ac	quired, D	ispos	sed of	f, or Ber	neficially	Owned				
1. Title of Security (Instr. 3) 2. Transa Date (Month/D			ate	Execution Date,		Code (Instr.			5. Amount Securities Beneficial Owned Fo Reported	Form: ly (D) or		Direct I ndirect I r. 4) (7. Nature of Indirect Beneficial Ownership (Instr. 4)				
					Code V Amount (A) or Pri					Price	Transaction	reported Fransaction(s) Instr. 3 and 4)			msu. 4)		
			Table II - De	erivativ	/e Sec	curities	Acq	uired, Dis	pose	ed of,	or Bene	ficially (Owned				
			(e.	.g., pu	ts, cal	ls, warı	ants	s, options	, con	vertib	ole secu	rities)					
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	Code	ansaction Derivative Ex		6. Date Exercisable and Expiration Date (Month/Day/Year) 7. Title and Amo of Securities Underlying Derivative Secur (Instr. 3 and 4)			es g Security	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s)	ly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		
				Code	v	(A)	(D)	Date Exercisable	Expii Date	iration	Title	Amount or Number of Shares		(Instr. 4)	,,,(9)		
Employee Stock Option (right to buy)	\$56.78	01/04/2021	01/04/2021	A		149,872		01/04/2022 ⁽¹⁾	01/03	3/2028	Common Stock	149,872	\$0.0	149,872	2	D	

Explanation of Responses:

1. Grant on 01/04/2021 to reporting person 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 01/04/2021. 25% of the shares subject to the option will vest and become exercisable on 01/04/2022. 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-01/06/2021 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.