SEC For		Δ		л ет/	TE	c ci			-C /1	חוא	Ē	УСЦА		:		SSION				
FORM 4 UNITED					STATES SECURITIES AND EXCHANGE CON Washington, D.C. 20549											331014		OMB APPROVA		
Section obligat	this box if no lo n 16. Form 4 or ions may conti tion 1(b).	ed pur	rsuant	to Se	ction 16(a	a) of the	Secu	uritie	EFICI es Exchan	ge Act	of 19		SHIP	Estim		er: verage burder sponse:	3235-0287 n 0.5			
	nd Address of <b>FREDE</b>		2. Issuer Name <b>and</b> Ticker or Trading Symbol <u>IONIS PHARMACEUTICALS INC</u> [ IONS ]										eck all applie X Directo	cable)	10% Ow		wner			
(Last)(First)(Middle)C/O IONIS PHARMACEUTICALS, INC.2855 GAZELLE COURT						3. Date of Earliest Transaction (Month/Day/Year) 06/30/2020										below) below)				
(Street) CARLSBAD CA 92010 (City) (State) (Zip)					- 4.	4. If Amendment, Date of Original Filed (Month/Day/Year)										Individual or Joint/Group Filing (Check Applicable ne) X Form filed by One Reporting Person Form filed by More than One Reporting Person				n
		Tal	ole I - Noi	n-Deri	vativ	ve Se	curi	ties Ac	quire	d, D	isp	oosed o	of, or l	Ben	eficiall	y Owned				
1. Title of Security (Instr. 3) 2. Trans Date (Month/I)						ear)	2A. Deemed Execution Date, if any (Month/Day/Year)		Cod	Transaction Code (Instr.		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 5)		l (A) or . 3, 4 and	5. Amount of Securities Beneficially Owned Followi Reported		Form (D) o	r Direct r Indirect str. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
										e V	, 	Amount		A) or D)	Price	Transact (Instr. 3	tion(s)	<u> </u>		(
Common Stock 0				06/3	5/30/2020		06/30/2020		<b>M</b> <sup>(1</sup>	)		15,000	(1)	Α	\$9.22	2 27,683			D	
Common Stock																1,	500		I	By Cooley LLP Sal Def & PSP u/A DTD 2/1/74 Pension Plan
			Table II -									,			-	Owned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deeme Execution if any (Month/Day	d Date,	4. Transa	ransaction		5. Number of		Options, conve 6. Date Exercisable at Expiration Date (Month/Day/Year)			7. Title of Sec Under	e and curitie rlying ative S	Amount s Security	8. Price of Derivative Security (Instr. 5)		e s dly g	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v			Date Exercis	Date Exercisable		xpiration	or Ni of		Amount or Number of Shares					
Director Stock Option (right to buy)	\$9.22	06/30/2020	06/30/2020		М		15,000 0		07/01/2	07/01/2014 (		6/30/2020	Comm Stoc		15,000	\$0	0		D	

Explanation of Responses:

1. Acquired as a result of exercising a stock option that was scheduled to expire on 6/30/2020.

Remarks:

## <u>/s/Patrick R. O'Neil, attorney-</u> <u>in-fact</u>

07/02/2020

\*\* Signature of Reporting Person Date

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

 $\ast$  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.