FORM 4

Check this box if no longer subject

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549 STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL OMB Number: 3235-0287

11. Nature of Indirect Beneficial

	3233-0207
Estimated average bur	den
hours per response:	0.5
	Estimated average but hours per response:

to Section 16. F	Form 4 or Form 5 y continue. See	••••	Filed pursuant to Section 16(a) of the Securities Exchange Act of 193	11	Estimated average burden hours per response:		
			or Section 30(h) of the Investment Company Act of 1940	'т			
1. Name and Addr O'NEIL PAT (Last) C/O IONIS PH 2855 GAZELL	(First)	(Middle)	2. Issuer Name and Ticker or Trading Symbol <u>IONIS PHARMACEUTICALS INC</u> [IONS] 3. Date of Earliest Transaction (Month/Day/Year) 01/25/2021	5. Relationship of Reporting Person(s) to (Check all applicable) Director 10% X Officer (give title Other below) below EVP & General Counsel			ner
(Street) CARLSBAD, (City)	CA (State)	92010 (Zip)	4. If Amendment, Date of Original Filed (Month/Day/Year)	Line) X	Form filed by One Form filed by Mor Person	 Filing (Check Apple Reporting Person re than One Report 	ו
1		Table I - Non-De	erivative Securities Acquired Disposed of or Bene	ficially C	Jwned		

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	Transaction Code (Instr.					5. Amount of Securities Beneficially Owned Following Reported	(D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	v	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		(11150. 4)
Common Stock	01/25/2021	01/25/2021	S		5,324 ⁽¹⁾	D	\$63.5	26,502	D	

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities) 4. 5. Number 6. Date Exercisable and Expiration Date Code (Instr. Derivative 0. 000 (Month/Day/Year) 3. Transaction Date 3A. Deemed Execution Date, 7. Title and Amount of 8. Price of Derivative 9. Number of derivative 10. Ownership Z. Conversion Derivative (Month/Day/Year) or Exercise if any Securities Security Securities Form:

(Instr. 3)		Price of Derivative Security	(Month/Day/Year)	8)		Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)				Underlying Derivative Security (Instr. 3 and 4)		(Instr. 5)	Beneficially Owned Following Reported Transaction(s) (Instr. 4)	Direct (D) or Indirect (I) (Instr. 4)	Ownership (Instr. 4)	'
							Code	V (A) (D) Date Expiration Date Amount or Number of Shares								

Explanation of Responses:

1. Shares sold pursuant to a Rule 10b5-1 Trading Plan adopted by the reporting person on January 6, 2020.

Remarks:

1. Title of

Security

/s/Patrick R. O'Neil

** Signature of Reporting Person Date

01/27/2021

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.