SEC Form 5

FORM 5

Check this box if no longer subject to Section 16. Form 4 or Form 5

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

OMB APPROVAL

I

OMB Number:	3235-0362					
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hours per response	: 1.0					

Obligations may continue. See Instruction 1(b). ANNUAL STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

X	Form 3 Holdings Reported.
\square	Form 4 Transactions Reported.

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

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1. Name and Address of Reporting Person* Hayden Michael R			IONIS PH		Trading Symbol EUTICALS INC [5. Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner				
				IONS]						
(Last) 2855 GAZELL	(First) LE COURT	(Middle)	3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year) 12/31/2022				Officer (give titl below)	e Otr bel	er (specify w)	
(Street)			4. If Amendmen	t, Date of Orig	jinal Filed (Month/Day/Year)	6. Indiv Line)	vidual or Joint/Gro	oup Filing (Che	ck Applicable	
CARLSBAD	CA	92010				X	Form filed by C	ne Reporting I	Person	
(City)	(State)	(Zip)					Form filed by N Person	lore than One	Reporting	
	-	Table I - Non-Deriva	ative Securitie	es Acquire	d, Disposed of, or Bene	ficially	v Owned			
Date (Month/Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Yoar)	3. Transaction Code (Instr.	4. Securities Acquired (A) or Disp Of (D) (Instr. 3, 4 and 5)		5. Amount of Securities Beneficially Dwned at ond of	6. Ownership Form: Direct	7. Nature of Indirect Beneficial Ownorship		

(month, Day, real)	(Month/Day/Voar)	8)						Ownership
	(Month/Day/real)	0)	Amount	(A) or (D)	Price	Issuer's Fiscal Year (Instr. 3 and 4)	Indirect (I) (Instr. 4)	(Instr. 4)
						23,109	D	
		3(1)				2,000	Ι	By Wife
		(Month/Day/Year)	(Month/Day/Year) 8)	(Month/Day/Year) 8) Amount	(Month/Day/Year) 8) Amount (A) or (D)	(Month/Day/Year) 8) Amount (A) or (D) Price	(Month/Day/Year) 8) Owned at end of Issuer's Fiscal Year (Instr. 3 and 4) Amount (A) or (D) Price Price Year (Instr. 3 and 4) Image: Comparison of the price Image: Comparison of the price 23,109	(Month/Day/Year) 8) Amount (A) or (D) Price Owned at end of Issuer's Fiscal Year (Instr. 3 and 4) (D) or Indirect (I) (Instr. 4) Image: Constraint of the second secon

 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 Securities Acquired (A) or Disposed of (D) (Instr. 3, 4		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					and t	,) (D)	Date Expiration Exercisable Date		Title	Amount or Number of Shares				

Explanation of Responses:

1. These securities are held by Genworks 2 Consulting, Inc. ("Genworks 2"). The Reporting Person's spouse has sole voting and investment power with respect to the shares held by Genworks 2. Genworks 2 owned such shares of common stock on September 20, 2018, the date on which the reporting person became a director of Ionis Pharmaceuticals, Inc.

Patrick R. O'Neil, attorney-in- fact, Michael R. Hayden	02/14/2023

** 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.