## SEC Form 4

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## FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL

OMB Number: 3235-0287						
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Section 16. Form 4 or Form 5 obligations may continue. See
Instruction 1(b).

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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*   O'NEIL PATRICK R.   (Last) (First)   (Middle)   2855 GAZELLE COURT						DNIS	S PH	ARM	ACEU	JTI	g Symbol CALS IN h/Day/Year)	NS (Che	below)	cable) or (give title		10% Ow Other (s below)	ner pecify			
						/26/2		nt, Date	of Origin	al File	ed (Month/Da	6. In	EVP CLO & General Counsel 6. Individual or Joint/Group Filing (Check Applicable							
(Street) CARLSBAD CA 92010					_							Line	ne) X Form filed by One Reporting Person Form filed by More than One Reporting Person							
(City) (State) (Zip)							Rule 10b5-1(c) Transaction Indication   Image: Statistic condition indicate that a transaction was made pursuant to a contract, instruction or written plan that is intended to satisfy the affirmative defense conditions of Rule 10b5-1(c). See Instruction 10.													
1 Title of 9	Socurity (Inc.		01e I - N	ON-Deri			Deem		quirec	a, Di	sposed o			5. Amou		6. Owne	rehin	7. Nature		
Da				Date (Month/Day/Yea		Execution Date,					f (D) (Instr. 3, 4 and 5)		Securitie Benefici Owned I	es ally Following	Form: D	n: Direct of or Indirect I nstr. 4)	of Indirect Beneficial Ownership			
									Code	v	Amount	(A) or (D)	Price	Reporte Transac (Instr. 3	tion(s)			(Instr. 4)		
Common Stock 12/26/20						023			М		20,825	Α	\$47.34	61,180		D				
Common Stock 12/26/20					2023	023			S		20,825	D	\$51.463	(1) 40,355		D				
			Table II	- Deriva (e.g.,	ative puts,	Secu calls	uritie s, wa	es Acq arrants	uired, s, optic	Dis ons,	posed of, convertil	or Ben ble secu	eficially urities)	Owned						
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security		3A. Deemed Execution Date, if any (Month/Day/Year)		4. Transa Code ( 8)				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. Numbe derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	ily Di or	wnership orm: rect (D) Indirect (Instr. 4)	11. Nature of Indirect Beneficial Ownershi (Instr. 4)		
					Code	v	(A)	(D)	Date Exercis	able	Expiration Date	Title	Amount or Number of Shares							
Non- Qualified Stock Option (right to	\$47.34	12/26/2023			М			20,825	01/03/2	2021	01/02/2024	Common Stock	20,825	\$0.0	0		D			

Explanation of Responses:

buy)

1. The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$51.30 to \$51.60 inclusive. The reporting person undertakes to provide to Ionis Pharmaceuticals, Inc. any security holder of Ionis Pharmaceuticals, Inc. or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the ranges set forth in footnote (1) on this Form 4.

Patrick R. O'Neil

\*\* Signature of Reporting Person

12/28/2023

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.