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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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

1. Name and Address of Reporting PUMA MARY G	Person*				me and Tio		,	g Symbol GIES INC	<u> </u>	LS	(Check	all app Direc	licable)		Issuer Owner (specify	
(Last) (First) C/O AXCELIS TECHNOLOG 108 CHERRY HILL DRIVE	(Middle GIES, INC	,	3. Date of Earliest Transact 05/15/2022								X	below)`			
(Street) BEVERLY MA	01915	;	4. If Amendment, Date of Original Filed (Month/Day/Yea						y/Year)		6. Indiv Line) X	ividual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person				
(City) (State)	(Zip)															
•	Table I - N	lon-Deriva	tive	Secui	rities Ac	quire	d, Di	sposed of	, or B	enef	cially	Own	ed			
1. Title of Security (Instr. 3)		Date	2. Transaction Date (Month/Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Year)		ction Instr.				4 and 5) Sec Ben Owi		cially I Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership	
						Code	v	Amount	(A) or (D)	Price	9		ction(s) 3 and 4)		(Instr. 4)	
Common Stock		05/15/20)22			F		5,050	D (1)	\$56	5.38(2)	388	3,851(3)	D		
Common Stock 05/15/)22		F		4,832	D (1)	\$56	\$56.38(2)		1,019(4)	D			
Common Stock		05/16/20	6/2022			F		3,607	D (1)	D ⁽¹⁾ \$56.		380,412(5)		D		
Common Stock 05/16/20)22		A		21,008	A	\$0	\$0.00 ⁽⁶⁾ 40		1,420 ⁽⁷⁾	D			
Common Stock 05/16/20			122		A		21,008	A	\$0.00(8)		422,428(9)		D			
Common Stock 05/17		05/17/20	022			F		3,232	D (1)	\$60	\$60.56(2)		,196(10)	D		
Common Stock													5,000	Ι	By spouse	
Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																
1. Title of Derivative Conversion Security (Instr. 3) Price of Derivative Security Output O				saction le (Instr. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Ins 3 and 4)		Der Sec (Ins	3. Price of Derivative Security Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4	Beneficial Ownership (Instr. 4)		
Fundamental of Posturation			Code V (A) (D)		Date Expiration Exercisable Date			Amour or Number of Shares	er							

Explanation of Responses:

- 1. These shares were withheld by the Company to cover the tax withholding obligations of the executive on the vesting of restricted stock units.
- 2. Represents the closing price of the common stock on the date of the tax withholding.
- 3. Of the shares held after this first tax withholding forfeiture (and related vesting) on May 15, 2022, 103,201 shares were issuable on vesting of restricted stock units granted to the executive under the 2012 Equity Incentive Plan and are subject to forfeiture
- 4. Of the shares held after this second tax withholding forfeiture (and related vesting) on May 15, 2022, 92,307 shares were issuable on vesting of restricted stock units granted to the executive under the 2012 Equity Incentive Plan and are subject to forfeiture
- 5. Of the shares held after this tax withholding forfeiture (and related vesting) on May 16, 2022, 84,176 shares were issuable on vesting of restricted stock units granted to the executive under the 2012 Equity Incentive Plan and are subject to forfeiture.
- 6. These shares are issuable on vesting of restricted stock units granted under the Company's 2012 Equity Incentive Plan. Assuming continuation of employment, 25% of these restricted stock units will vest on each of May 16, 2023, May 16, 2024, May 16, 2025 and May 16, 2026.
- 7. Of the shares held after this first grant on May 16, 2022, 105,184 were issuable on vesting of restricted stock units granted to the executive under the 2012 Equity Incentive Plan and are subject to forfeiture.
- 8. In this grant under the Company's 2012 Equity Incentive Plan, the executive may earn shares of common stock, ranging from zero to 150% of the granted units. The shares are earned based on the achievement of 2022 performance goals. Assuming continuation of employment,50% of the earned shares will vest on each of February 28, 2023 and February 28, 2024. Unearned restricted stock units will forfeit on February 28, 2023.
- 9. Of the shares held after this second grant on May 16, 2022, 126,192 shares were issuable on vesting of restricted stock units granted to the executive under the 2012 Equity Incentive Plan and are
- 10. Of the shares held after this tax withholding forfeiture (and related vesting) on May 17, 2022, 118,906 shares were issuable on vesting of restricted stock units granted to the executive under the 2012 Equity Incentive Plan and are subject to forfeiture.

Remarks:

Lynnette C. Fallon, as attorney 05/18/2022 in fact for Mary G. Puma

** 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.

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