FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

STATEMENT OF C	HANGES IN BEN	EFICIAL OWN	JERSHIP

l	OMB APPROVAL							
l	OMB Number: 3235-0							
l	Estimated average b	urden						
ı	hours per response:	0.5						

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

Name and Address of Reporting Person*					2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS								5. Relationship of Reporting Person(s) to Issuer (Check all applicable)						
<u>PUMA MARY G</u>					AACEEIO TECHNOLOGIES INC [ACES								X	X Director			10% O	vner	
(Last) (First) (Middle)					,								X	Office below	er (give title w)		Other (: below)	specify	
C/O AXCELIS TECHNOLOGIES, INC.						3. Date of Earliest Transaction (Month/Day/Year)							President and CEO						
108 CHERRY HILL DRIVE					12/14/2022														
						4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable					
(Street)														Line) X Form filed by One Reporting Person					
BEVERI	Y M	A 0	1915											Λ		Form filed by More than One Reporting			
,										Person									
(City)	(Sta	ate) (Z	ip)																
		Table	I - No	n-Deriva	tive S	Secui	rities	Acq	uired	, Dis	posed of	, or B	enefi	cially	Own	ed			
1. Title of Security (Instr. 3) 2. Transacti				Execution Date, if any			3.	3. 4. Securities Acquired (A Transaction Disposed Of (D) (Instr. 3,			ired (A)	5. Amount of 4 and Securities					7. Nature of Indirect		
Date (Month/Day							Code (Instr. 5)			1501. 5, 4	Benefic		cially (D)		Indirect	Beneficial Ownership			
						I, , , , ,			<u> </u>	Т	Amount (A) or Br		or .		Reported Transaction(s)		(1) (1113		(Instr. 4)
					Code	٧	Amount	(D) Prid		e	(Instr. 3 and 4)								
Common Stock 12/14/20					2022			G	V	7,109	D	\$0	.00(1)	386,402(2)]	D		
	Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned																		
				(e.g., pu	ts, ca	ılls, v	varra	ınts,	optio	ns, c	onvertib	le sec	curitie	es)					
1. Title of Derivative Security (Instr. 3)	ive Conversion Date Execution Date, or Exercise (Month/Day/Year) if any		ion Date,		Transaction of Code (Instr. Derivative		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 derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	y D OI (I)	0. wnership orm: irect (D) r Indirect) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)			
					Code	v	(A)	(D)	Date Exercis	sable	Expiration Date	Title	Amount or Number of Shares	r					

Explanation of Responses:

- 1. These shares of Common Stock were donated by the executive as a gift to a Morgan Stanley Charitable Account, a donor advised fund, entitled MS GIFT EIVIND LANGE MARY PUMA DAF.
- 2. Of the shares held as of December 14, 2022, 118,906 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 12/15/2022 in fact for Mary G. Puma

** 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.