FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Machinatan	D C	20540	
Nashington,	D.C.	20049	

STATEMENT	OF CHANG	ES IN BENE	FICIAL OW	NERSHIP

OMB APPRO	OMB APPROVAL									
OMB Number:	3235-0287									
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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 Person* KEITHLEY JOSEPH P						2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS]							k all app Direc	tor er (give title	ng Pers	10% O'Other (below)	wner		
	Fir CELIS TEC ERRY HILL	CHNOLOGIES,	Middle)		3. Date of Earliest Transaction (Month/Day/Year) 12/14/2022 4. If Amendment, Date of Original Filed (Month/Day/Year)					6 Indi		r Joint/Grou	n Filino	,	nplicable				
(Street) BEVERI			1915											Line)	ne)				
(City)	(Sta		Zip)																
		Table	I - No	n-Deriva	itive S	Secui	rities	Acq	uired	, Dis	posed of	, or E	Benefi	cially	Own	ed			
Date			2. Transac Date (Month/Da	Execution Date,		3. Transaction Code (Instr. 8) 4. Securities Acquired (A Disposed Of (D) (Instr. 3)		ired (A) nstr. 3, 4	4 and Securi		ties cially Following	Form: (D) or	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)					
								Code	Code V Amount		(A) (D)	Pri	ce	Transa	ction(s) 3 and 4)			(1150.4)	
Common	Stock			12/14/2	2022			S		1,000	D	D \$86.24		24 20,375(1)			D		
		Tal							,		osed of, convertib			•	Owne	d			
1. Title of Derivative Security (Instr. 3)	erivative Conversion Date Execution Date, ecurity or Exercise (Month/Day/Year) if any		4. Transa Code (8)				6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Ins 3 and 4)		ınt		tive derivative ty Securities	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)				
					Code	v	(A)	(D)	Date Exercis	sable	Expiration Date	Title	Number of Shares						

Explanation of Responses:

1. Of the shares held as of December 14, 2022, 2,689 were issuable on vesting of restricted stock units granted to the director under the 2012 Equity Incentive Plan and are subject to forfeiture.

Remarks:

Lynnette C. Fallon, as attorney 12/14/2022 in fact for Joseph P. Keithley

** 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.