FORM 4

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Vashington,	D.C	20549	
vasilliquon,	D.C.	20049	

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL										
OMB Number: 3235-02										
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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  (Last) (First) (Middle)  C/O AXCELIS TECHNOLOGIES, INC.					2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ ACLS ]  3. Date of Earliest Transaction (Month/Day/Year) 08/25/2022										k all app Direc	tor er (give title	ng Per	rson(s) to Is 10% O Other ( below)	wner
(Street) BEVERI	ERRY HILL LY M.	A 0	1915 Zip)		4. If <i>I</i>	Line) X Form filed by									filed by On	Group Filing (Check Applicable  y One Reporting Person  y More than One Reporting			
		Table	I - No	n-Deriva	tive S	Secu	rities	Acq	uired,	Dis	posed of	, or E	Benef	icially	y Own	ed			
1. Title of Security (Instr. 3)  2. Transact Date (Month/Day)					Execution Date,		3. Transaction Code (Instr. 8)  4. Securities Acquired (Disposed Of (D) (Instr. 3)  5)				4 and Securi Benefi		ties For cially (D) I Following (I) (		vnership n: Direct r Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)			
									Code	v	Amount	(A) (D)	or Pri	ice	Transa	ction(s) 3 and 4)			(11341. 4)
Common Stock 08/25/2					2022			S		2,000	2,000 D \$		79.37	23,375(1)			D		
	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)	Execut if any			action (Instr. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)  Date Exercisable Expiration Date		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)  Amount or Number of Title Shares		De Se (In:	Price of crivative scurity str. 5)  Beneficiall Owned Following Reported Transactio (Instr. 4)		у	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		

## **Explanation of Responses:**

1. Of the shares held as of August 25, 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 08/25/2022 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.

- $^{\star}$  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.

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