FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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	OMB APPROVAL										
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l	OMB Number:	3235-0287									
l	Estimated average burden										
l	hours per response	: 0.5									

	Check this box if no longer subjec
$\Box$	to Section 16. Form 4 or Form 5
$\cup$	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*  KEITHLEY JOSEPH P						2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ ACLS ]									all app Direc	olicable)	ng Person(s) to I 10% O		
(Last) (First) (Middle) C/O AXCELIS TECHNOLOGIES, INC.						3. Date of Earliest Transaction (Month/Day/Year) 06/12/2023									belov			below)	
108 CHERRY HILL DRIVE					4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable Line)					
(Street) BEVERLY MA 01915															X Form filed by One Reporting Person  Form filed by More than One Reporting  Person				
(City) (State) (Zip)						e 10	)b5-	1(c)	) Tran	sac	tion Ind	icati	on						
						Check this box to 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.													
		Table	I - No	n-Deriva	tive S	ecur	ities	Acc	ηuired,	Dis	posed of	, or E	enefic	ially	Owr	ned			
1. Title of Security (Instr. 3)  2. Transaction Date (Month/Day/					Year)	Execu f any	eemed ition Date, h/Day/Year)		3. Transaction Code (Instr. 8)  4. Securities Disposed Of 5)			es Acquired (A) Of (D) (Instr. 3,		or 5. Am 4 and Secur Benef Owne Follow		cially 1	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)
								Code	v	Amount	(A) o (D)	Price			rted action(s) 3 and 4)				
Common	023				S		500 D \$		\$181	.75	4,157(1)			D					
		Tab	le II	Derivativ (e.g., pu							osed of, convertib				Owne	d			
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	cise (Month/Day/Year) if any f ive (Month/Day/Year				Transaction Number Code (Instr. of			6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		1				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 June 12, 2023, 1,282 were issuable on vesting of restricted stock units granted to the director under the 2012 Equity Incentive Plan and are subject to forfeiture.

## Remarks:

<u>Lynnette C. Fallon, as</u> <u>attorney in fact for Joseph P.</u> 06/14/2023 <u>Keithley</u>

\*\* 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.