FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C. 20549
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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).

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

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								Relationship of Reporting Person(s) to Issuer (Check all applicable)						
KEIII	LEY JUS	<u>БЕРП Р</u>			1									X	Direc	tor		10% O	wner	
(Last)	(Fir	st) (N	Middle)		1	1										er (give title v)		Other ( below)	specify	
C/O AXCELIS TECHNOLOGIES, INC.						3. Date of Earliest Transaction (Month/Day/Year) 05/17/2021														
108 CHERRY HILL DRIVE																				
		4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)							6. Individual or Joint/Group Filing (Check Applicable Line)										
(Street)					1									X	Form	filed by On	e Rep	orting Pers	on	
BEVERI 	LY M	A 0	1915												Form Perso	filed by Mo	re thai	n One Rep	orting	
(City)	(Sta	ate) (Z	<u>Z</u> ip)																	
		Table	I - No	n-Deriva	tive S	Secu	rities	Acq	uired,	Dis	posed of	, or E	Benef	icially	/ Own	ed				
1. Title of Security (Instr. 3)  2. Transacti Date (Month/Day					Execution Date,			3. 4. Securitie Transaction Code (Instr. 8) 5.					and Securit		ties cially I Following	Form (D) o	n: Direct	7. Nature of Indirect Beneficial Ownership		
					Code	v	Amount	(A) (D)	or Pri	ice	Transa	ransaction(s) Instr. 3 and 4)			(Instr. 4)					
Common Stock 05/17/2						2021					3,497	A	\$(	).00 <sup>(1)</sup>	33	,686 <sup>(2)</sup>	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)	Executi if any	ny onth/Day/Year)		ansaction of ode (Instr. Derivative		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)		Dei Sec (Instr.	b. Price of Derivative Security Instr. 5) Securiti General General Fellowir Reporte Transac (Instr. 4)		y	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		

## **Explanation of Responses:**

- 1. These shares are issuable on vesting of restricted stock units granted under the Company's 2012 Equity Incentive Plan. Assuming continuation of service on the Board of Directors, these restricted stock units will vest on November 17, 2021.
- 2. Of the shares held after this grant on of May 17, 2021, 3,497 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 05/17/2021 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.