FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

ashington,	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(h)						

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									5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
													X	Direc	tor		10% O	wner		
(Last)	(Fir	st) (N	Middle)			•									Office belov	er (give title v)		Other (below)	specify	
C/O AXCELIS TECHNOLOGIES, INC.					3. Date of Earliest Transaction (Month/Day/Year) 02/25/2022															
108 CHE	ERRY HILL	DRIVE			-	02/20/2022														
						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													filed by Mo		•		
(City)	(Sta	ate) (Z	Zip)												1 0130	511				
		Table	I - No	n-Deriva	tive S	Secu	rities	Acq	uired,	Dis	posed of	, or E	Benefi	cially	/ Own	ed				
1. Title of Security (Instr. 3) 2. Transac Date (Month/Da		Execution Date		Date,	3. 4. Securitie Disposed (5) 5)				4 and Securit		ties Fo cially (D I Following (I)		wnership n: Direct or Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)						
									Code	v	Amount	(A) (D)	or Prio	се	Transa	ction(s) 3 and 4)			(111501.4)	
Common Stock 02/25/			02/25/2	2022			S		3,000	D	\$6	9.05	22	2,686		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)	if any	emed ion Date, /Day/Year)	4. Transa Code (8)		Str. Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year) Date Expiration Exercisable Date		7. Title and Amount of Securities Underlying Derivative Security (Inst 3 and 4)		De Sei (In:	Price of rivative curity str. 5)	9. Number derivative Securities 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:

Remarks:

Lynnette C. Fallon, as attorney 02/28/2022 in fact for Joseph P. Keithley

** Signature of Reporting Person

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.