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* Lawson Douglas A.						2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC ACLS									k all app Direc	or 10% Owner (give title Other (speci		6 Owner er (specify	
(Last)	(Fir	,	Middle)		3. Da	te of E	arliest	t Trans	action (N	Month	/Day/Year)			1		,	Mktg & S	· · · · · · · · · · · · · · · · · · ·	
C/O AXCELIS TECHNOLOGIES, INC. 108 CHERRY HILL DRIVE						03/02/2022									•	Ü			
108 CHE	ERRY HILL	4. If A	If Amendment, Date of Original Filed (Month/Day/Year)							6. Individual or Joint/Group Filing (Check Applicable									
(Street)			It allocations, but of original Fied (Month buy) real)								Line)								
BEVERI	LY M	A 0	1915											X Form filed by One Reporting Person Form filed by More than One Reporting					
															Person				
(City)	(Sta	ate) (2	Zip)																
		Table	I - No	n-Deriva	tive S	Secu	rities	Acq	uired,	Dis	posed of	, or E	Bene	ficially	/ Own	ed			
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)				Execution Date,					es Acquired (A) o Of (D) (Instr. 3, 4 a					6. Ownershi Form: Direc (D) or Indire (I) (Instr. 4)	of Indirect				
						Code	v	Amount	(A) (D)	or P	rice	Transa	ction(s) 3 and 4)		(11341.4)				
Common Stock 03/02/2						2022			S		4,531	D		\$69.3	36,133(1)		D		
Common Stock 03/03/2					2022				s 2,798		2,798	D	\$	71.65	65 33,335(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)	if any	emed ion Date, /Day/Year)	4. Transactio Code (Inst				6. Date Exercisa Expiration Date (Month/Day/Yea		e Ame Sec Und Der Sec		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		Price of rivative curity str. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4	Beneficial Ownership ect (Instr. 4)	
				Code	v	(A)	(D)	Date Exercis	able	Expiration Date	Title	Amou or Numb of Share	ber						

Explanation of Responses:

1. Of the shares held as of March 2, 2022 and March 3, 2022, 27,490 were issuable on vesting of restricted stock units granted to the executive under the 2012 Equity Incentive Plan and are subject to forfeiture.

Remarks:

Lynnette C. Fallon, as attorney 03/03/2022 in fact for Douglas A. Lawson

** 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.