FORM 4

Check this box if no longer subject to Section 16. Form 4 or Form 5

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

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

Name and Address of Reporting Person*  Low Russell						2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ ACLS ]										eck all appli Directo			son(s) to Iss 10% Ov Other (s	/ner	
	`	DLOGIES, INC.	(Middle)			3. Date of Earliest Transaction (Month/Day/Year) 08/30/2021									<b>below</b> )	below) below)  EVP, Engineering					
(Street) BEVERI (City)			01915 (Zip)		4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)								Line	Y Form f	vidual or Joint/Group Filing (Check Applicable  Form filed by One Reporting Person  Form filed by More than One Reporting  Person					
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																				
1. Title of Security (Instr. 3)			Date	2. Transaction Date (Month/Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Year)		. I	Code (Instr.		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4 5)					es Fo ially (D) Following (I)		n: Direct or Indirect Instr. 4)	7. Nature of Indirect Beneficial Ownership		
										Code	v	Amount	ount (A) or (D)		Price	Reporte Transac (Instr. 3	tion(s)			Instr. 4)	
Common Stock				08/30	0/2021					M		5,475	5   1	<b>A</b>	<b>\$14</b>	74,	74,636(1)		D		
Common Stock			08/30	0/2021	/2021			Ì	S		3,305	5 1	)	\$50.6	63 71,331 <sup>(1)</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)	3A. Deeme Execution if any (Month/Da	Date,	4. Transaction Code (Instr. 8)		n of l		Ex	5. Date Exercisab Expiration Date Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Secur (Instr. 3 and 4)			8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	ly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Da Ex	ate kercisable		xpiration ate	Title	or Nu of	umber						
Stock option (right to buy)	\$14	08/30/2021			М			5,475	11	1/15/2020	1	1/15/2023	Commo Stock	n 5	,475	\$0.00	0		D		

## **Explanation of Responses:**

1. Of the shares beneficially owned by the executive on August 30, 2021, 40,711 shares were issuable on vesting of restricted stock units which are subject to forfeiture.

## Remarks:

<u>Lynnette C. Fallon, as attorney</u> <u>in fact for Russell J. Low,</u> 08/30/2021 Ph.D.

\*\* 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.

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.