FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Check this box if no longer subject to Section 16. Form 4 or Form 5	STATEMENT OF CHAN						
obligations may continue. See Instruction 1(b).	Filed pursuant to Section 1						
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OMB APPROVAL OMB Number: GES IN BENEFICIAL OWNERSHIP

Estimated average burden hours per response: 0.5

Filed pursuant to Section 16(a) of the Securities Exchange A	Act of 3	193
or Section 30(h) of the Investment Company Act of 1	940	

Name and Address of Reporting Person* KURTZWEIL JOHN T					2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS]											all applicable) Director		g Person(s) to Issuer 10% Owner		wner	
		HNOLOGIES, I	(Middle) GIES, INC.			3. Date of Earliest Transaction (Month/Day/Year) 05/16/2017										Office belov	er (give title w)		Other below)	(specify	
108 CHERRY HILL DRIVE (Street) BEVERLY MA 01915					- 4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)										6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting					
(City)	(St	ate) (Zip)		-											Pers		ic tilaii	One Rep	orung	
		Tabl	e I - Nor	n-Deriv	/ative	Se	curiti	es Acc	quired,	Dis	posed o	f, or	Bene	fici	ally (Owne	ed				
			2. Transaction Date (Month/Day/Year)		ar)	2A. Deemed Execution Date, if any (Month/Day/Year)		Transaction Disposed Code (Instr. 5)			ities Acquired (A) d Of (D) (Instr. 3, 4				5. Amount of Securities Beneficially Owned Following		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership		
						Code	v	Amount	() (I	A) or D)	Price		Reported Transaction(s) (Instr. 3 and 4)				(Instr. 4)				
Common	Stock			05/10	6/2017	7			S ⁽¹⁾		900		D	\$21	.65	24	1,487(2)				
Common	Stock			05/1	7/2017	7			A		3,802	2	A	\$0.0)O ⁽³⁾	28	28,289 ⁽⁴⁾ D				
		Та									osed of, onvertib					vned					
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/Day	Date,		Transaction Code (Instr.		n of i		6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)			rice of ivative urity tr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownersh Form: Direct (D or Indire (I) (Instr.	vnership rm: rect (D) Indirect	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisa	ıble	Expiration Date	Title	Amo or Num of Sha	ber							

Explanation of Responses:

- 1. This sale of 900 shares was made to cover the tax liability incident to the vesting of 2,813 shares on May 15, 2017 under a restricted stock unit granted to the director on May 15, 2015.
- 2. Of the shares held as of May 16, 2017, 5,625 were issuable on vesting of restricted stock units granted under the 2012 Equity Incentive Plan and are subject to forfeiture.
- 3. These shares are issuable on vesting of restricted stock units granted under the Company's 2012 Equity Incentive Plan. Assuming continuation of service as a director, 100% of these restricted stock units will vest on November 17, 2017.
- 4. Of the shares held on May 17, 2017, 9,427 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 in fact for John T. Kurtzweil

05/17/2017

** 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.