FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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** OMB Number: 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*  TOOKER GARY L						2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ ACLS ]									ationship o k all applic Directo	able)	g Pers	son(s) to Issu 10% Ow		
(Last) (First) (Middle) C/O AXCELIS TECHNOLOGIES, INC.							3. Date of Earliest Transaction (Month/Day/Year) 07/01/2004									(give title		Other (s below)	pecify	
108 CHERRY HILL DRIVE						4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable					
(Street) BEVERLY MA 01915		01915			Line)  X Form filed by One Report  Form filed by More than Person										•					
(City)	(S	tate)	(Zip)																	
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																				
1. Title of Security (Instr. 3)  2. Transar Date (Month/Date)					ear)	2A. Deeme Execution if any (Month/Da	Date,	Code (In:	Transaction Disposed Code (Instr. 5)		ties Acquired (A) o d Of (D) (Instr. 3, 4				es Forn ally (D) o Following (I) (II d tion(s)		: Direct r Indirect str. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
								Code	,	Amount	(A) o (D)	r Pri	ce	Reported Transact (Instr. 3 a			1			
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 if any (Month/Day	Date,	4. Transa Code ( 8)		of		6. Date Exercisab Expiration Date (Month/Day/Year)			and 7. Title and Am of Securities Underlying Derivative Sec (Instr. 3 and 4)			3. Price of Derivative Security Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transaction (Instr. 4)	re es ally g d tion(s)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisable		kpiration ate	Title	Amor or Numl of Share	ber						
Stock option (right to buy)	\$11.91	07/01/2004			A <sup>(1)</sup>		15,000		12/29/2004	07	7/01/2014	Common Stock	15,0	000	\$0.00	15,000	0	D		

## **Explanation of Responses:**

1. Granted Pursuant to the Axcelis Technologies, Inc. 2000 Stock Plan.

Lynnette C. Fallon, as attorneyin-fact for Gary L. Tooker

\*\* 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.