FORM 4

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL								
OMB Number:	3235-0287							
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hours per response:	0.5							

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

1. Name and Address of Reporting Person*  BASSETT STEPHEN G						2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ ACLS ]							f Reporting Person able)		10% Ow	ner
(Last) (First) (Middle) 108 CHERRY HILL DRIVE					3. Date of Earliest Transaction (Month/Day/Year) 06/25/2004							v Dilicer below)	(give title Sr. VP a	title Other (spelow)  VP and CFO		респу
(Street) BEVERLY MA 01915				4	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) (State) (Zip)											Person					
		Tal	ole I - Non-l	Derivati	ve Se	curitie	s Ac	quired, Di	sposed o	f, or Ber	neficiall	y Owned				
1. Title of Security (Instr. 3)  2. Transac Date (Month/Date)					Execution Date,			Code (Instr. 5)				5. Amour Securitie Beneficia Owned F Reported	es Forr ally (D) ( Following (I) (I		: Direct I Indirect E str. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
							Code V	Amount	(A) or (D)	Price	Transact (Instr. 3 a	ion(s)			(m3u. 4)	
			Table II - Do (e					uired, Disp s, options,				Owned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Yea	Code (Instr.				6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s (Instr. 4)		10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)
				Code	· v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares					
Stock option (right to buy)	\$11.87	06/25/2004		A <sup>(1)</sup>		25,000		06/25/2008 <sup>(2)</sup>	06/25/2014	Common Stock	25,000	\$0.00	25,000	)	D	

## Explanation of Responses:

- 1. Granted Pursuant to the Axcelis Technologies, Inc. 2000 Stock Plan.
- $2.\ Excercisable\ as\ to\ 25\%\ of\ the\ total\ shares\ on\ each\ of\ 6/25/2005,\ 6/25/2006,\ 6/25/2007\ and\ 6/25/2008.$

<u>Lynnette C. Fallon, as attorney-in-fact for Stephen G. Bassett</u> <u>06/28/2004</u>

\*\* 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.