SEC Form 4	
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(City)

### FORM 4

# UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Check this box if no longer subject t Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).
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(State)

(Zip)

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934

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

	-)-		or Section 30(h) of the Investment Company Act of 1940		·	
1. Name and Address of Reporting Person <sup>*</sup> VAN MAAREN JAN PAUL			2. Issuer Name and Ticker or Trading Symbol <u>AXCELIS TECHNOLOGIES INC</u> [ ACLS ]	(Check all ap Dire	, ,	rson(s) to Issuer 10% Owner Other (specify
(Last) (First) (Middle) C/O AXCELIS TECHNOLOGIES, INC. 108 CHERRY HILL DRIVE	OGIES, INC.	3. Date of Earliest Transaction (Month/Day/Year) 06/30/2004	belo	w) VP and GM,	below) 1, CCS	
(Street) BEVERLY	МА	01915	4. If Amendment, Date of Original Filed (Month/Day/Year)	Line) X Forn	m filed by One Rep m filed by More tha	0

#### Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)					3, 4 and	5. Amount of Securities Beneficially Owned Following Reported		7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	v	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		(iiisti: 4)
Common Stock	06/30/2004		<b>J</b> <sup>(1)</sup>	v	1,500	Α	\$4.956	3,465.8	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. Deemed Execution Date, if any (Month/Day/Year)	4. Transa Code ( 8)		of Deriv Secur Acqu (A) or Dispo of (D)	or oosed D) tr. 3, 4		7. Title Amour Securi Underl Deriva Securi and 4)	nt of ties ying tive ty (Instr. 3	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)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				

Explanation of Responses:

1. Purchased under the Axcelis Technologies, Inc. Employee Stock Purchase Plan, qualified under I.R.C. Section 423.

Lynnette C. Fallon, as attorney-07/02/2004

in-fact for Jan Paul van Maaren

\*\* 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.