

APPLIED SIGNAL TECHNOLOGY INC  
 Form 4/A  
 September 27, 2005

**FORM 4** UNITED STATES SECURITIES AND EXCHANGE COMMISSION  
 Washington, D.C. 20549

OMB APPROVAL  
 OMB Number: 3235-0287  
 Expires: January 31, 2005  
 Estimated average burden 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).

**STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES**

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting Person \*  
 Roscher Fred

2. Issuer Name and Ticker or Trading Symbol  
 APPLIED SIGNAL TECHNOLOGY INC [APSG]

5. Relationship of Reporting Person(s) to Issuer  
 (Check all applicable)

(Last) (First) (Middle)  
 400 W. CALIFORNIA AVE  
 (Street)

3. Date of Earliest Transaction (Month/Day/Year)  
 11/30/2004

\_\_\_\_ Director \_\_\_\_\_ 10% Owner  
 Officer (give title below) \_\_\_\_\_ Other (specify below)  
 Exec. VP Communications Group

SUNNYVALE, CA 95037  
 (City) (State) (Zip)

4. If Amendment, Date Original Filed(Month/Day/Year)  
 09/26/2005

6. Individual or Joint/Group Filing(Check Applicable Line)  
 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)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)	4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Ownership (Instr. 4)
			Code	V	Amount (A) or (D) Price		
Common Stock <sup>(1)</sup>	11/30/2004		J		408 A \$ 13.49	7,777	D
Common Stock <sup>(1)</sup>	05/31/2005		J		1,343 A \$ 13.49	9,120	D
Common Stock	09/13/2005		S		6 D \$ 18.71	9,114	D
Common Stock	09/13/2005		S		200 D \$ 18.7	8,914	D
Common Stock	09/13/2005		S		200 D \$ 18.64	8,714	D

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Common Stock	09/13/2005	S	200	D	\$ 18.53	8,514	D
Common Stock	09/13/2005	S	400	D	\$ 18.58	8,114	D
Common Stock	09/13/2005	S	500	D	\$ 18.6	7,614	D
Common Stock	09/13/2005	S	1,000	D	\$ 18.63	6,614	D
Common Stock	09/13/2005	S	100	D	\$ 18.5	6,514	D
Common Stock	09/13/2005	S	56	D	\$ 18.55	6,458	D
Common Stock	09/13/2005	S	100	D	\$ 18.65	6,358	D
Common Stock	09/13/2005	S	100	D	\$ 18.61	6,258	D
Common Stock	09/13/2005	S	100	D	\$ 18.59	6,158	D
Common Stock	09/13/2005	S	100	D	\$ 18.57	6,058	D
Common Stock	09/13/2005	S	100	D	\$ 18.56	5,958	D
Common Stock <sup>(2)</sup>	09/13/2005	S	2,666	D	\$ 18.47	3,292	D

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

**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 control number.**

SEC 1474  
(9-02)

**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. Transaction Code (Instr. 8)	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)	7. Title and Amount of Underlying Securities (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Number of Derivative Securities Beneficially Owned (Instr. 6)
							Title		

Date	Expiration	Amount or Number of Shares
Exercisable	Date	

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Roscher Fred 400 W. CALIFORNIA AVE SUNNYVALE, CA 95037			Exec. VP Communications Group	

## Signatures

Fred Roscher  
09/26/2005

\*\*Signature of  
Reporting Person

Date

## Explanation of Responses:

- \* 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).
- (1) Acquisition of stock under Applied Signal Technology, Inc. 1993 Employee Stock Purchase Plan in a transaction exempt under old capital rule 16b-3.
  - (2) Disposed of additional shares on 9/13/05 that was not placed on the original Form 4 filing.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.