

Ready Michael J  
 Form 3/A  
 February 06, 2006

**FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION**  
**Washington, D.C. 20549**

OMB APPROVAL

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**INITIAL STATEMENT OF 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 *  |         | 2. Date of Event Requiring Statement  | 3. Issuer Name <b>and</b> Ticker or Trading Symbol   |   |
| Â Ready Michael J                          |         | (Month/Day/Year)  | APPLIED SIGNAL TECHNOLOGY INC [APSG]   |   |
| (Last)                                     | (First) | (Middle)  | 02/06/2006   |   |
| 400 W. CALIFORNIA AVE                      |         |   | 4. Relationship of Reporting Person(s) to Issuer   |   |
| (Street)                                   |         |   | (Check all applicable)   |   |
| SUNNYVALE, Â CA Â 94086                    |         |   | <input type="checkbox"/> Director <input type="checkbox"/> 10% Owner<br><input checked="" type="checkbox"/> Officer <input type="checkbox"/> Other<br>(give title below)    (specify below)<br>Chief Marketing Officer |   |
| (City)                                     | (State) | (Zip)   | 5. If Amendment, Date Original Filed(Month/Day/Year)   |   |
|  |         |   | 08/25/2005   |   |
| 1. Title of Security                       |         | 2. Amount of Securities Beneficially Owned  |  | 3. Ownership Form:                          |
| (Instr. 4)                                 |         | (Instr. 4)  |  | Direct (D)<br>or Indirect (I)<br>(Instr. 5) |
| Common Stock                               |         | 3,247   |  | D Â   |
| 4. Nature of Indirect Beneficial Ownership |         | 6. Individual or Joint/Group Filing(Check Applicable Line)  |  |   |
| (Instr. 5)                                 |         | <input checked="" type="checkbox"/> Form filed by One Reporting Person<br><input type="checkbox"/> Form filed by More than One Reporting Person |  |   |

**Table I - Non-Derivative Securities Beneficially Owned**

| 1. Title of Security<br>(Instr. 4) | 2. Amount of Securities<br>Beneficially Owned<br>(Instr. 4) | 3. Ownership<br>Form:<br>Direct (D)<br>or Indirect<br>(I)<br>(Instr. 5) | 4. Nature of Indirect Beneficial<br>Ownership<br>(Instr. 5) |
|------------------------------------|---|---|---|
| Common Stock                       | 3,247   | D   | Â   |

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly. SEC 1473 (7-02)

**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.**

**Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)**

| 1. Title of Derivative Security<br>(Instr. 4) | 2. Date Exercisable and<br>Expiration Date<br>(Month/Day/Year) | 3. Title and Amount of<br>Securities Underlying<br>Derivative Security<br>(Instr. 4) | 4. Conversion<br>or Exercise<br>Price of<br>Derivative<br>Security | 5. Ownership<br>Form of<br>Derivative<br>Security:<br>Direct (D)<br>or Indirect | 6. Nature of Indirect<br>Beneficial<br>Ownership<br>(Instr. 5) |
|---|--|--|--|---|--|
|   | Date<br>Exercisable  | Expiration<br>Date   | Title  | Amount or<br>Number of  |  |

| Stock Options (Right to Buy) <sup>(1)</sup> | 12/15/2008 | 12/15/2013 | Common Stock | Shares | \$ 20.85 | (I)        | D | A |
|---|------------|------------|--------------|--------|----------|------------|---|---|
|   |            |            |              |        |          | (Instr. 5) |   |   |
|   |            |            |              | 10,000 |          |            |   |   |

## Reporting Owners

| Reporting Owner Name / Address                                  | Relationships |           |                           |       |
|---|---------------|-----------|---------------------------|-------|
|   | Director      | 10% Owner | Officer                   | Other |
| Ready Michael J<br>400 W. CALIFORNIA AVE<br>SUNNYVALE, CA 94086 | A             | A         | A Chief Marketing Officer | A     |

## Signatures

Michael Ready                      02/05/2006  
 \*\*Signature of                      Date  
 Reporting Person

## Explanation of Responses:

- \* If the form is filed by more than one reporting person, see Instruction 5(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) Option became exercisable as to 2,000 shares on December 15, 2004, and monthly thereafter. The option will be fully exercisable on December 15, 2008.

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.