APPLIED SIGNAL TECHNOLOGY INC Form SC 13G April 06, 2005

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

SCHEDULE 13G

Under the Securities Exchange Act of 1934 (Amendment No.)*

| APPLIED SIGNAL TECHNOLOGY, INC. |
|--------------------------------------|
| (Name of Issuer) |
| Common Stock |
| (Title of Class of Securities) |
| 038237103 |
| (CUSIP Number) |
| April 1, 2005 |
| (Date of Event which Requires Filing |

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

of this Statement)

[] Rule 13d-1(b)
[X] Rule 13d-1(c)
[] Rule 13d-1(d)

*The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required on the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

Page 1 of 11

CUSIP No. 038237103 13G Page 2 of 11 Pages

| 1 | | NAME OF REPORTING PERSON I.R.S. IDENTIFICATION NO. OF ABOVE PERSON | | | | | | |
|-------|-------------------------------|--|---|--|--|--|--|--|
| | S.A.C. Capital Advisors, LLC | | | | | | | |
| 2 | CHECK THE A | PPROP | RIATE BOX IF A MEMBER OF A GROUP* (a) [] (b) [X] | | | | | |
| 3 | SEC USE ONL | Y | | | | | | |
| 4 | CITIZENSHIP | OR P | LACE OF ORGANIZATION | | | | | |
| | Delaware | | | | | | | |
| | | 5 | SOLE VOTING POWER | | | | | |
| 27772 | | | 0 | | | | | |
| SH | BER OF ARES | 6 | SHARED VOTING POWER | | | | | |
| OWN | ICIALLY ED BY REPORTING | | 592,863 (see Item 4) | | | | | |
| | - | 7 | SOLE DISPOSITIVE POWER | | | | | |
| | | | 0 | | | | | |
| | | 8 | SHARED DISPOSITIVE POWER | | | | | |
| | | | 592,863 (see Item 4) | | | | | |
| 9 | AGGREGATE A | TNUOM | BENEFICIALLY OWNED BY EACH REPORTING PERSON | | | | | |
| | 592,863 (se | e Ite | m 4) | | | | | |
| 10 | | F THE | AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHA | | | | | |
| | [] | | | | | | | |
| 11 | PERCENT OF | CLASS | REPRESENTED BY AMOUNT IN ROW (9) | | | | | |
| | 5.2% (see I | tem 4 |) | | | | | |
| 12 | TYPE OF REP | ORTIN | G PERSON* | | | | | |
| | 00 | | | | | | | |
| | | *SEE | INSTRUCTION BEFORE FILLING OUT | | | | | |
| | | | Page 2 of 11 | | | | | |
| | | | | | | | | |

2

| 1 | | NAME OF REPORTING PERSON I.R.S. IDENTIFICATION NO. OF ABOVE PERSON | | | | | |
|-------|--------------------------------|--|---|--|--|--|--|
| | S.A.C. Capital Management, LLC | | | | | | |
| 2 | CHECK THE A | PPROP | RIATE BOX IF A MEMBER OF A GROUP* (a) [] (b) [X] | | | | |
| 3 | SEC USE ONL | Y | | | | | |
| 4 | CITIZENSHIP | OR P | LACE OF ORGANIZATION | | | | |
| | Delaware | | | | | | |
| | | 5 | SOLE VOTING POWER | | | | |
| | | | 0 | | | | |
| SH | NUMBER OF SHARES | | SHARED VOTING POWER | | | | |
| OWN | ICIALLY ED BY REPORTING | | 592,863 (see Item 4) | | | | |
| | - | 7 | SOLE DISPOSITIVE POWER | | | | |
| | | | 0 | | | | |
| | | 8 | SHARED DISPOSITIVE POWER | | | | |
| | | | 592,863 (see Item 4) | | | | |
| 9 | AGGREGATE A | MOUNT | BENEFICIALLY OWNED BY EACH REPORTING PERSON | | | | |
| | 592,863 (se | e Ite | m 4) | | | | |
| 10 | CHECK BOX I | F THE | AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHA | | | | |
| | [] | | | | | | |
| 11 | PERCENT OF | CLASS | REPRESENTED BY AMOUNT IN ROW (9) | | | | |
| | 5.2% (see I | tem 4 | | | | | |
| 12 | TYPE OF REP | ORTIN | G PERSON* | | | | |
| | 00 | | | | | | |
| | | *SEE | INSTRUCTION BEFORE FILLING OUT | | | | |
| | | | Page 3 of 11 | | | | |
| | | | | | | | |

3

| 1 | NAME OF REPORTING PERSON I.R.S. IDENTIFICATION NO. OF ABOVE PERSON | | | | | | | | |
|-------|--|-----------|--|--------|--|--|--|--|--|
| | S.A.C. Capital Associates, LLC | | | | | | | | |
| 2 | CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP* | | | | | | | | |
| | | | (b) | [X] | | | | | |
| 3 | SEC USE ONL | У | | | | | | | |
| 4 | CITIZENSHIP OR PLACE OF ORGANIZATION | | | | | | | | |
| | Anguilla, B | ritis | h West Indies | | | | | | |
| | | | SOLE VOTING POWER | | | | | | |
| | | | 0 | | | | | | |
| | IBER OF | 6 | SHARED VOTING POWER | | | | | | |
| BENEF | CIALLY | Ü | 586,363 (see Item 4) | | | | | | |
| EACH | OWNED BY EACH REPORTING PERSON WITH | | SOLE DISPOSITIVE POWER | | | | | | |
| PERS | ON WITH | / | | | | | | | |
| | | | 0 | | | | | | |
| | | 8 | SHARED DISPOSITIVE POWER | | | | | | |
| | | | 586,363 (see Item 4) | | | | | | |
| 9 | AGGREGATE A | MOUNT | BENEFICIALLY OWNED BY EACH REPORTING PERSON | | | | | | |
| | 586,363 (se | e Ite | m 4) | | | | | | |
| 10 | CHECK BOX I | F THE | AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN | SHARES | | | | | |
| | [] | | | | | | | | |
| 11 | PERCENT OF | CLASS | REPRESENTED BY AMOUNT IN ROW (9) | | | | | | |
| | 5.2% (see I | tem 4 |) | | | | | | |
| 12 | TYPE OF REP | ORTIN | G PERSON* | | | | | | |
| | 00 | | | | | | | | |
| | | *SEE | INSTRUCTION BEFORE FILLING OUT | | | | | | |

Page 4 of 11

| CUSIP No. | 038237103 | | | 13G | Page | | | | Pages | |
|--------------|---|--------------------------------------|---------------------|--------------|-------------|--------|--------|--------|------------|--|
| | | | | - | | | | | | |
| 1 | NAME OF REP | | | F ABOVE PERS | SON | | | | | |
| | S.A.C. Mult | iQuan | ant Fund, LLC | | | | | | | |
| 2 | CHECK THE A | PPROP | RIATE BOX I | F A MEMBER (| OF A GROU | P* | | | (a) [] | |
| | | | | | | | | | (b) [X] | |
| 3 | SEC USE ONL | Y | | | | | | | | |
| 4 | CITIZENSHIP | CITIZENSHIP OR PLACE OF ORGANIZATION | | | | | | | | |
| | Delaware | | | | | | | | | |
| | | | SOLE VOTIN | G POWER | | | | | | |
| | | | 0 | | | | | | | |
| | MBER OF HARES | 6 | SHARED VOTING POWER | | | | | | | |
| | FICIALLY NED BY | | 6,500 (see | Ttom 4) | | | | | | |
| EACH | REPORTING | | | | | | | | | |
| PERS | SON WITH | / | | SITIVE POWER | < | | | | | |
| | | | 0 | | | | | | | |
| | | 8 | SHARED DIS | POSITIVE POW | <i>I</i> ER | | | | | |
| | | | 6,500 (see | Item 4) | | | | | | |
| 9 | AGGREGATE A | MOUNT | BENEFICIAL | LY OWNED BY | EACH REP | ORTI | ING | PERS | ON | |
| | 6,500 (see | Item | | | | | | | | |
| 10 | CHECK BOX I | F THE | | AMOUNT IN RO | | | | CERT | AIN SHARES | |
| | [] | | | | | | | | | |
| | | | | | | | | | | |
| 11 | PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) | | | | | | | | | |
| | Less than 0.1% (see Item 4) | | | | | | | | | |
| 12 | TYPE OF REP | ORTIN | G PERSON* | | | | | | | |
| | 00 | | | | | | | | | |
| | | *SEE | INSTRUCTIO | N BEFORE FII | | | | | | |
| | | | Page | 5 of 11 | | | | | | |
| | | | | | | | | | | |
| CUSTP No | 038237103 | | | - 13G | Page | 66 | of | 11 | Pages | |

| 1 | NAME OF REPORTING PERSON I.R.S. IDENTIFICATION NO. OF ABOVE PERSON | | | | | | | | |
|-----------------|--|-----------|---|--------|--|--|--|--|--|
| Steven A. Cohen | | | | | | | | | |
| 2 | CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP* | | | | | | | | |
| | | | | o) [X] | | | | | |
| 3 | SEC USE ONL | Y | · | | | | | | |
| 4 | CITIZENSHIP | OR P | LACE OF ORGANIZATION | | | | | | |
| | United State | es | | | | | | | |
| | | 5 | SOLE VOTING POWER | | | | | | |
| | | | 0 | | | | | | |
| | BER OF ARES | 6 | SHARED VOTING POWER | | | | | | |
| | ICIALLY ED BY | | 592,863 (see Item 4) | | | | | | |
| | REPORTING ON WITH | 7 | SOLE DISPOSITIVE POWER | | | | | | |
| | | | 0 | | | | | | |
| | | 8 | SHARED DISPOSITIVE POWER | | | | | | |
| | | | 592,863 (see Item 4) | | | | | | |
| 9 | AGGREGATE A | MOUNT | BENEFICIALLY OWNED BY EACH REPORTING PERSON | 1 | | | | | |
| | 592,863 (se | e Ite | m 4) | | | | | | |
| 10 | CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES | | | | | | | | |
| | [] | | | | | | | | |
| | | | | | | | | | |
| 11 | PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) | | | | | | | | |
| | 5.2% (see I | tem 4 |) | | | | | | |
| 12 | TYPE OF REPORTING PERSON* | | | | | | | | |
| | IN | | | | | | | | |
| | | *SEE | INSTRUCTION BEFORE FILLING OUT | | | | | | |

Page 6 of 11

Item 1(a) Name of Issuer:

Applied Signal Technology, Inc.

Item 1(b) Address of Issuer's Principal Executive Offices:

400 West California Avenue

Sunnyvale, CA 94086

Items 2(a) Name of Person Filing:

This statement is filed by: (i) S.A.C. Capital Advisors, LLC, ("SAC Capital Advisors") with respect to shares of common stock ("Shares") of the Issuer beneficially owned by S.A.C. Capital Associates, LLC ("SAC Capital Associates") and S.A.C. MultiQuant Fund, LLC ("SAC MultiQuant"); (ii) S.A.C. Capital Management, LLC, ("SAC Capital Management") with respect to Shares beneficially owned by SAC Capital Associates with respect to Shares beneficially owned by it; (iv) SAC MultiQuant with respect to Shares beneficially owned by it; and (v) Steven A. Cohen with respect to Shares beneficially owned by SAC Capital Advisors, SAC Capital Management, SAC Capital Associates and SAC MultiQuant.

Item 2(b) Address of Principal Business Office:

The address of the principal business office of (i) SAC Capital Advisors and Mr. Cohen is 72 Cummings Point Road, Stamford, Connecticut 06902, (ii) SAC Capital Management is 540 Madison Avenue, New York, New York 10022, and (iii) SAC Capital Associates and SAC MultiQuant is Victoria House, P.O. Box 58, The Valley, Anguilla, British West Indies.

Item 2(c) Citizenship:

SAC Capital Advisors and SAC Capital Management are Delaware limited liability companies. SAC Capital Associates and SAC MultiQuant are Anguillan limited liability companies. Mr.

Cohen is a United States citizen.

Item 2(d) Title of Class of Securities:

Common Stock

Page 7 of 11

038237103

Item 3 Not Applicable

The percentages used herein are calculated based upon the Shares issued and outstanding as of January 28, 2005 as reported on the Issuer's quarterly report on Form 10-Q filed with the Securities and Exchange Commission by the Issuer for the quarterly period ended January 28, 2005.

As of the close of business on April 5,

2005:

- 1. S.A.C. Capital Advisors, LLC
- (a) Amount beneficially owned: 592,863
- (b) Percent of class: 5.2%
- (c)(i) Sole power to vote ordirect the vote: -0-
- (ii) Shared power to vote or direct the vote: 592,863
- (iii) Sole power to dispose or direct the disposition: -0-
- (iv) Shared power to dispose or direct the disposition: 592,863
- 2. S.A.C. Capital Management, LLC
- (a) Amount beneficially owned: 592,863
- (b) Percent of class: 5.2%
- (c)(i) Sole power to vote or direct the vote: -0-
- (ii) Shared power to vote or direct the vote: 592,863
- (iii) Sole power to dispose or direct the disposition: -0-
- (iv) Shared power to dispose or direct the disposition: 592,863
- 3. S.A.C. Capital Associates, LLC
- (a) Amount beneficially owned: 586,363
- (b) Percent of class: 5.2%
- (c)(i) Sole power to vote or direct the vote: -0-
- (ii) Shared power to vote or direct the vote: 586,363
- (iii) Sole power to dispose or direct the disposition: -0-
- (iv) Shared power to dispose or direct the disposition: 586,363

Page 8 of 11

- 4. S.A.C. MultiQuant, Fund, LLC
- (a) Amount beneficially owned: 6,500
- (b) Percent of class: Less than 0.1%
- (c)(i) Sole power to vote or direct the vote: -0-
- (ii) Shared power to vote or direct the vote: 6,500
- (iii) Sole power to dispose or direct the disposition: -0-
- (iv) Shared power to dispose or direct the disposition: 6,500
- 5. Steven A. Cohen
- (a) Amount beneficially owned: 592,863
- (b) Percent of class: 5.2%
- (c)(i) Sole power to vote or direct the vote: -0-
- (ii) Shared power to vote or direct the vote: 592,863
- (iii) Sole power to dispose or direct the disposition: -0-
- (iv) Shared power to dispose or direct the disposition: 592,863

SAC Capital Advisors, SAC Capital Management and Mr. Cohen own directly no shares of Common Stock. Pursuant to investment agreements, each of SAC Capital Advisors and SAC Capital Management share all investment and voting power with respect to the securities held by SAC Capital Associates and SAC MultiQuant. Mr. Cohen controls each of SAC Capital Advisors, and SAC Capital Management. By reason of the provisions of Rule 13d-3 of the Securities Exchange Act of 1934, as amended, each of SAC Capital Advisors, SAC Capital Management and Mr. Cohen may be deemed to own beneficially 592,863 Shares (constituting approximately 5.2% of the Shares outstanding). Each of SAC Capital Advisors, SAC Capital Management and Mr. Cohen disclaim beneficial ownership of any of the securities covered by this statement.

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following. []

Item 6 Ownership of More than Five Percent on Behalf of Another

Person:

Person:

Not Applicable

Page 9 of 11

Item 7 Identification and Classification of the

Subsidiary Which Acquired the Security Being
----Reported on By the Parent Holding Company:

Not Applicable

Item 8 Identification and Classification of Members

of the Group:

Not Applicable

Not Applicable

By signing below the signatory certifies that, to the best of his knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of

the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

Page 10 of 11

SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Dated: April 6, 2005

S.A.C. CAPITAL ADVISORS, LLC

By: /s/ Peter Nussbaum

Name: Peter Nussbaum Title: Authorized Person

S.A.C. CAPITAL MANAGEMENT, LLC

BBy: /s/ Peter Nussbaum

Name: Peter Nussbaum Title: Authorized Person

S.A.C. CAPITAL ASSOCIATES, LLC

By: /s/ Peter Nussbaum

Name: Peter Nussbaum Title: Authorized Person

S.A.C. MULTIQUANT FUND, LLC

By: /s/ Peter Nussbaum

Name: Peter Nussbaum Title: Authorized Person

STEVEN A. COHEN

By: /s/ Peter Nussbaum

Name: Peter Nussbaum

Title: Authorized Person

Page 11 of 11