

Nersesian Ronald S.
Form 4
December 29, 2010

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

OMB APPROVAL

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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 *
Nersesian Ronald S.

2. Issuer Name and Ticker or Trading Symbol
AGILENT TECHNOLOGIES INC
[A]

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)

3. Date of Earliest Transaction (Month/Day/Year)
12/27/2010

____ Director _____ 10% Owner
 Officer (give title below) _____ Other (specify below)
Senior Vice President

5301 STEVENS CREEK BLVD.
(Street)

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

6. Individual or Joint/Group Filing(Check Applicable Line)
 Form filed by One Reporting Person
 Form filed by More than One Reporting Person

SANTA CLARA, CA 95051

(City) (State) (Zip)

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 Indirect Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|--|
| | | | Code | V | Amount | (D) | Price |
| Common Stock | 12/27/2010 | | M | | 26,253 | A | \$ 31.93 |
| | | | | | | | 101,510.7202 |
| Common Stock | 12/27/2010 | | S | | 26,253 | D | \$ 41.912 |
| | | | | | | | 75,257.7202 |
| | | | | | | | (1) |
| Common Stock | 12/27/2010 | | M | | 21,002 | A | \$ 31.93 |
| | | | | | | | 96,259.7202 |
| Common Stock | 12/27/2010 | | S | | 21,002 | D | \$ 41.86 |
| | | | | | | | 75,257.7202 |
| | | | | | | | (2) |

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.

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(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 Security (Instr. 3 and 4) | Amount or Number of Shares |
|---|--|--------------------------------------|--|--------------------------------|---|--|---|----------------------------|
| Employee Stock Option (Right to Buy) ⁽³⁾ | \$ 31.93 | 12/27/2010 | | M | 26,253 | 01/26/2005 ⁽⁴⁾ 01/25/2014 | Common Stock | 26,253 |
| Employee Stock Option (Right to Buy) ⁽³⁾ | \$ 31.93 | 12/27/2010 | | M | 21,002 | 01/17/2007 ⁽³⁾ 01/16/2016 | Common Stock | 21,002 |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|--|---------------|-----------|-----------------------|-------|
| | Director | 10% Owner | Officer | Other |
| Nersesian Ronald S. 5301 STEVENS CREEK BLVD. SANTA CLARA, CA 95051 | | | Senior Vice President | |

Signatures

/s/ Stephen D. Williams, attorney-in-fact for Mr. Nersesian
 12/29/2010
**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) The weighted average sales price was \$41.912 with a range of \$41.86 to \$41.99.

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- (2) The weighted average sales price was \$41.86 with a range of \$41.85 to \$41.88.
- (3) Right to buy Agilent Technologies, Inc. common stock granted under the Agilent Technologies, Inc. 1999 Stock Plan, in compliance with Rule 16b-3.
- (4) This option is fully vested and exercisable.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure.

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