Doak Mark Form 4 December 19, 2017

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB Number:

3235-0287

Expires:

January 31, 2005

0.5

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if no longer subject to Section 16. Form 4 or Form 5 obligations

may continue.

See Instruction

Check this box

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

1(b).

(Print or Type Responses)

| 1. Name and Add Doak Mark | ress of Reporti | ng Person * | 2. Issuer Name and Ticker or Trading Symbol AGILENT TECHNOLOGIES INC | 5. Relationship of Reporting Person(s) to Issuer | | | |
|------------------------------|-----------------|-------------|--|---|--|--|--|
| | [A] | | | (Check all applicable) | | | |
| (Last) | (First) | (Middle) | 3. Date of Earliest Transaction (Month/Day/Year) | Director 10% Owner N Officer (give title Other (specify | | | |
| 5301 STEVENS CREEK BLVD | | | 12/18/2017 | below) below) Sr. Vice President | | | |
| | (Street) | | 4. If Amendment, Date Original | 6. Individual or Joint/Group Filing(Check | | | |
| | | | Filed(Month/Day/Year) | Applicable Line) | | | |
| SANTA CLARA, CA 95051 | | | | _X_ Form filed by One Reporting Person Form filed by More than One Reporting Person | | | |

| (City) | (State) (| Zip) Table | e I - Non-D | erivative S | Securi | ties Acqu | ired, Disposed of | , or Beneficiall | y Owned |
|--------------------------------------|---|---|--|---|------------------|-------------|--|---|---|
| 1.Title of Security (Instr. 3) | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if any (Month/Day/Year) | 3. Transactio Code (Instr. 8) | 4. Securities Acquired on(A) or Disposed of (D) (Instr. 3, 4 and 5) | | | 5. Amount of Securities Beneficially Owned Following | 6. Ownership Form: Direct (D) or Indirect (I) | 7. Nature of Indirect Beneficial Ownership (Instr. 4) |
| | | | Code V | Amount | (A) or (D) | Price | Reported Transaction(s) (Instr. 3 and 4) | (Instr. 4) | |
| Common Stock | 12/18/2017 | | M | 3,146 | A | \$ 39.12 | 71,103.757 | D | |
| Common Stock | 12/18/2017 | | S | 3,146 | D | \$ 68 | 67,957.757 | D | |
| Common Stock | 12/18/2017 | | M | 12,421 | A | \$ 40.8 | 80,378.757 | D | |
| Common Stock | 12/18/2017 | | S | 12,421 | D | \$ 68 | 67,957.757 | D | |

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

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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 tiorDerivative 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 Underlying Securition (Instr. 3 and 4) | |
|--|---|---|---|---|--|--------|--|--------------------|--|------------------------------|
| | | | | Code V | (A) | (D) | Date Exercisable | Expiration Date | Title | Amou or Numb of Sha |
| Employee Stock Option (Right to Buy) (1) | \$ 39.12 | 12/18/2017 | | M | | 3,146 | 11/20/2014(2) | 11/19/2023 | Common Stock | 3,14 |
| Employee Stock Option (Right to Buy) (1) | \$ 40.8 | 12/18/2017 | | M | | 12,421 | 11/19/2015(3) | 11/18/2024 | Common Stock | 12,4 |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | | | | |
|--------------------------------|---------------|-----------|---------|-------|--|--|--|
| | Director | 10% Owner | Officer | Other | | | |

Doak Mark

5301 STEVENS CREEK BLVD Sr. Vice President SANTA CLARA, CA 95051

Signatures

/s/ P. Diana Chiu, attorney-in-fact for Mr.
Doak
12/19/2017

**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) Right to buy Agilent Technologies, Inc. common stock granted under the Agilent Technologies, Inc. Stock Plan, in compliance with Rule 16b-3.

Reporting Owners 2

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- (2) The option is fully vested and exercisable
- (3) The option is exercisable in four equal annual installments beginning on the first anniversary of the date of the grant. The first vesting date is stated.

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