

Roelofs Nicolas H PHD
 Form 3/A
 September 19, 2008

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 and Ticker or Trading Symbol | |
| Â Roelofs Nicolas H PHD | | (Month/Day/Year) | AGILENT TECHNOLOGIES INC [A] | |
| (Last) | (First) | (Middle) | 11/15/2007 | |
| 5301 STEVENS CREEK BLVD. | | 4. Relationship of Reporting Person(s) to Issuer | | |
| (Street) | | (Check all applicable) | | |
| SANTA CLARA, Â CA Â 95051 | | <input type="checkbox"/> Director <input type="checkbox"/> 10% Owner <input checked="" type="checkbox"/> Officer <input type="checkbox"/> Other (give title below) (specify below) Vice President | | |
| (City) | (State) | (Zip) | 5. If Amendment, Date Original Filed(Month/Day/Year) | |
| | | | 11/21/2007 | |
| 1. Title of Security | | 6. Individual or Joint/Group Filing(Check Applicable Line) | | |
| (Instr. 4) | | <input checked="" type="checkbox"/> Form filed by One Reporting Person <input type="checkbox"/> Form filed by More than One Reporting Person | | |

Table I - Non-Derivative Securities Beneficially Owned

| 1. Title of Security (Instr. 4) | 2. Amount of Securities Beneficially Owned (Instr. 4) | 3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5) | 4. Nature of Indirect Beneficial Ownership (Instr. 5) |
|------------------------------------|--|---|--|
| Common Stock ⁽¹⁾ | 18,528 | 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 (Instr. 4) | 2. Date Exercisable and Expiration Date (Month/Day/Year) | 3. Title and Amount of Securities Underlying Derivative Security (Instr. 4) | 4. Conversion or Exercise Price of Derivative Security | 5. Ownership Form of Derivative Security: Direct (D) or Indirect | 6. Nature of Indirect Beneficial Ownership (Instr. 5) |
|---|---|--|--|--|--|
| | Date Exercisable | Expiration Date | Title | Amount or Number of | |

Shares (I)
(Instr. 5)

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|--|---------------|-----------|------------------|-------|
| | Director | 10% Owner | Officer | Other |
| Roelofs Nicolas H PHD 5301 STEVENS CREEK BLVD. SANTA CLARA, CA 95051 | Â | Â | Â Vice President | Â |

Signatures

Marie Oh Huber, attorney-in-fact for Mr.
Roelofs 09/19/2008

__Signature of Reporting Person Date

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).
- This amended Form 3 is being filed to correct the number of shares held by the reporting person as of November 15, 2007. The original (1) Form 3 mistakenly omitted the restricted stock shares and the restricted stock units held by the reporting person. The right amount as of November 21, 2007 was 18,528 shares.

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.