

Roelofs Nicolas H PHD
 Form 4
 November 19, 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 *
 Roelofs Nicolas H PHD

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)
 5301 STEVENS CREEK BLVD.
 (Street)

3. Date of Earliest Transaction (Month/Day/Year)
 11/17/2010

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

SANTA CLARA, CA 95051
 (City) (State) (Zip)

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

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 Beneficial Ownership (Instr. 4)
				(A) or (D)	Price		
Common Stock	11/17/2010		A ⁽¹⁾	V	13,529	A	\$ 35.21 48,791 D
Common Stock	11/17/2010		F		4,963	D	\$ 35.21 43,828 D
Common Stock	11/17/2010		A ⁽²⁾		20,000	A	\$ 0 63,828 D

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

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number.

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⁾	\$ 35.21	11/17/2010		A	60,711	11/17/2011 ⁽⁴⁾ 11/16/2020	Common Stock	60,711

Reporting Owners

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

Signatures

/s/ Stephen D. Williams, attorney-in-fact for Mr. Roelofs 11/19/2010

**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) On November 17, 2010, 13,529 shares of common stock of Agilent Technologies, Inc. were awarded to the reporting person pursuant to the Agilent Technologies, Inc. Long-Term Performance Program.
- (2) Restricted Stock Units granted under the Agilent Technologies, Inc. 2009 Stock Plan, in compliance with Rule 16b-3. The restricted stock units vest in four equal annual installments beginning on November 17, 2011.
- (3) Right to buy Agilent Technologies, Inc. common stock granted under the Agilent Technologies, Inc. 2009 Stock Plan, in compliance with Rule 16b-3.
- (4) The option is exercisable in four equal installments beginning on the first anniversary of the date of the grant. The first vesting date is stated.

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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