McMullen Michael R. Form 4 November 16, 2017

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

OMB APPROVAL

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Check this box if no longer subject to Section 16. Form 4 or Form 5

SECURITIES

Filed pureyent to Section 16(a) of the Securities Evaluate Act of 1024

Form 5 obligations may continue. See Instruction See Instruction 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 Address of Reporting Person * 5. Relationship of Reporting Person(s) to 2. Issuer Name and Ticker or Trading McMullen Michael R. Issuer Symbol AGILENT TECHNOLOGIES INC (Check all applicable) [A] (Last) (First) (Middle) 3. Date of Earliest Transaction _X__ Director 10% Owner Other (specify X_ Officer (give title (Month/Day/Year) below) 5301 STEVENS CREEK BLVD. 11/14/2017 CEO and President (Street) 4. If Amendment, Date Original 6. Individual or Joint/Group Filing(Check Filed(Month/Day/Year) Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting SANTA CLARA, CA 95051 Person

(City)	(State)	(Zip) Tak	ole I - Non-	Derivative S	Securi	ties Acqu	ired, Disposed of, o	or Beneficially	y 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. Securitie ord Disposed (Instr. 3, 4)	d of (Ľ))	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)
Common Stock	11/14/2017		A	53,695 (1)	A	\$ 67.46	265,570.9036 (2)	D	
Common Stock	11/14/2017		A	101,602 (3)	A	\$ 67.46	367,172.9036	D	
Common Stock	11/14/2017		F	53,017 (4)	D	\$ 67.46	314,155.9036	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)

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Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of	2.	3. Transaction Date	3A. Deemed	4.	5.	6. Date Exerc	cisable and	7. Title	and	8. Price of	9. Nu
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transactio	onNumber	Expiration D	ate	Amount	t of	Derivative	Deriv
Security	or Exercise		any	Code	of	(Month/Day/	Year)	Underly	ing	Security	Secui
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Derivative	e		Securitie	es	(Instr. 5)	Bene
	Derivative				Securities			(Instr. 3	and 4)		Own
	Security				Acquired						Follo
	•				(A) or						Repo
					Disposed						Trans
					of (D)						(Instr
					(Instr. 3,						
					4, and 5)						
								^	mount		
									mount		
						Date	Expiration	Title N			
						Exercisable	Date	Title Number of			
				C + V	(A) (D)						
				Code V	(A) (D)			S	hares		

Reporting Owners

SANTA CLARA, CA 95051

Reporting Owner Name / Address	Relationships						
	Director	10% Owner	Officer	Other			
McMullen Michael R.							
5301 STEVENS CREEK BLVD.	X		CEO and President				

Signatures

/s/ P. Diana Chiu, attorney-in-fact for Mr. McMullen

11/16/2017

**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).
- Restricted Stock Units granted under the Agilent Technologies, Inc. 2009 Stock Plan, in compliance with Rule 16b-3. The restricted stock **(1)** units vest in four equal annual installments beginning on November 14, 2018.
- 4.3233 Shares acquired in an Employee Stock Purchase Plan under Section 423 of the Internal Revenue Code of 1986, as amended, in a **(2)** transaction exempt under Rule 16b-3.
- On November 14, 2017, 101,602 shares of common stock of Agilent Technologies, Inc. were issued to the reporting person pursuant to (3) the Agilent Technologies, Inc. Long-Term Performance Program.
- The reporting person surrendered 53,017 shares to Agilent Technologies, Inc. to satisfy the tax liability on the vesting of restricted stock units in accordance with Rule 16b-3.

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.

Reporting Owners 2