

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 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person *		2. Issuer Name and Ticker or Trading Symbol		5. Relationship of Reporting Person(s) to Issuer (Check all applicable)	
Dumond Patty		Invitae Corp [NVTA]		<input type="checkbox"/> Director <input type="checkbox"/> 10% Owner <input checked="" type="checkbox"/> X Officer (give title below) <input type="checkbox"/> Other (specify below) VP Fin. & Principal Acct. Off.	
(Last) (First) (Middle)		3. Date of Earliest Transaction (MM/DD/YYYY)			
C/O INVITAE CORPORATION, 458 BRANNAN STREET		5/16/2016			
(Street)		4. If Amendment, Date Original Filed (MM/DD/YYYY)		6. Individual or Joint/Group Filing (Check Applicable Line)	
SAN FRANCISCO, CA 94107				<input checked="" type="checkbox"/> Form filed by One Reporting Person <input type="checkbox"/> Form filed by More than One Reporting Person	
(City) (State) (Zip)					

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Trans. Date	2A. Deemed Execution Date, if any	3. Trans. 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)
			Code	V	Amount	(A) or (D)	Price			
Common Stock	5/16/2016		M (1)		1000	A	\$2.82	12033 (2)	D	
Common Stock	5/16/2016		S (1)		1000	D	\$8.73	11033 (2)	D	
Common Stock	5/17/2016		S (1)		2221	D	\$8.35 (3)	8812	D	

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

1. Title of Derivate Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Trans. Date	3A. Deemed Execution Date, if any	4. Trans. 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		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form of Derivative Security: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Employee Stock Option (right to buy)	\$2.82	5/16/2016		M (1)		1000		(4)	9/11/2023	Common Stock	1000	\$0	9333	D	

Explanation of Responses:

- (1) This transaction was effected pursuant to a Rule 10b 5-1 trading plan previously adopted by the reporting person.
- (2) Includes 2,221 shares of the Company's Common Stock acquired pursuant to the Company's Employee Stock Purchase Plan.
- (3) Represents a weighted average purchase price for multiple transactions at prices ranging from \$7.94 to \$8.77, inclusive. Upon request by the Commission staff, the Company or a security holder of the Company, the reporting person will provide full information regarding the number of shares purchased by the reporting person on May 17, 2016 at each separate price.
- (4) The option became exercisable as to 25% of the shares on September 11, 2014, and becomes exercisable as to 1/48th of the shares each full month thereafter.

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Dumond Patty C/O INVITAE CORPORATION 458 BRANNAN STREET SAN FRANCISCO, CA 94107			VP Fin. & Principal Acct. Off.	

Signatures

/s/ **Patty Dumond**

5/18/2016

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

* 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).

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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