

INVITAE CORP
Reported by
DEERFIELD MANAGEMENT CO

FORM 4
(Statement of Changes in Beneficial Ownership)

Filed 02/19/15 for the Period Ending 02/18/15

Address	458 BRANNAN STREET SAN FRANCISCO, CA 94107
Telephone	(415) 992-8173
CIK	0001501134
Symbol	NVTA
Fiscal Year	12/31

FORM 4

[X] Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

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

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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 * Flynn James E <small>(Last) (First) (Middle)</small> 780 THIRD AVENUE, 37TH FLOOR, <small>(Street)</small> NEW YORK, NY 10017 <small>(City) (State) (Zip)</small>	2. Issuer Name and Ticker or Trading Symbol Invitae Corp [NVTA]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input type="checkbox"/> Director <input checked="" type="checkbox"/> 10% Owner <input type="checkbox"/> Officer (give title below) <input type="checkbox"/> Other (specify below) Possible Member of 10% Group
3. Date of Earliest Transaction (MM/DD/YYYY) <p align="center">2/18/2015</p>		6. Individual or Joint/Group Filing (Check Applicable Line) <input type="checkbox"/> Form filed by One Reporting Person <input checked="" type="checkbox"/> Form filed by More than One Reporting Person
4. If Amendment, Date Original Filed (MM/DD/YYYY)		

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	2/18/2015		C		166666	A	(1)	166666	I	Through Deerfield Special Situations Fund, L.P. (2) (3)
Common Stock	2/18/2015		P		87500	A	\$16.00	254166	I	Through Deerfield Special Situations Fund, L.P. (2) (3)
Common Stock	2/18/2015		P		39112	A	\$16.00	39112	I	Through Deerfield Partners, L.P. (2) (3)
Common Stock	2/18/2015		P		48388	A	\$16.00	48388	I	Through Deerfield International Master Fund, L.P. (2) (3)

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				
Series F Preferred		2/18/2015								Common				Through Deerfield Special Situations

Table II - Derivative Securities 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. 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				
Stock	(1)			C		1000000	(1)	(1)	Stock	166666	(1)	0	I	Fund, L.P. (2) (3)

Explanation of Responses:

- (1) The Series F Preferred Stock was convertible at any time into one-sixth (1/6) of one share of the Issuer's common stock (on an adjusted basis, after giving effect to the 1-for-6 reverse stock split effected by the Issuer on February 9, 2015). The Series F Preferred Stock converted into shares of the Issuer's common stock upon the closing of the Issuer's initial public offering of common stock.
- (2) This Form 4 is being filed by the undersigned as well as the entities listed on the Joint Filer Information Statement attached as an exhibit hereto (the "Reporting Persons"). Deerfield Mgmt L.P. is the general partner of Deerfield Special Situations Fund, L.P. (the "Fund"). Deerfield Management Company, L.P. is the investment manager of the Fund. James E. Flynn is the sole member of the general partner of each of Deerfield Mgmt, L.P. and Deerfield Management Company, L.P.
- (3) In accordance with Instruction 4(b)(iv) to Form 4, the entire amount of the Issuer's securities held by the Fund is reported herein. For purposes of Section 16 of the Securities Exchange Act of 1934, each Reporting Person disclaims beneficial ownership of any such securities, except to the extent of his/its indirect pecuniary interest therein, if any, and this report shall not be deemed an admission that such Reporting Person is the beneficial owner of such securities for purposes of Section 16 or otherwise.

Remarks:

David Clark, signing as Attorney-in-Fact: Power of Attorney, incorporated by reference to Exhibit 24 to a Form 3 with regard to Avalanche Biotechnologies, Inc. filed with the Securities and Exchange Commission on July 30, 2014 by Deerfield Mgmt L.P., Deerfield Mgmt III, L.P., Deerfield Special Situations Fund, L.P., Deerfield Special Situations International Master Fund, L.P., Deerfield Private Design Fund III, L.P. and James E. Flynn.

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Flynn James E 780 THIRD AVENUE, 37TH FLOOR NEW YORK, NY 10017		X		Possible Member of 10% Group
Deerfield Mgmt L.P. 780 THIRD AVENUE, 37TH FLOOR NEW YORK, NY 10017		X		Possible Member of 10% Group
DEERFIELD MANAGEMENT CO 780 THIRD AVENUE, 37TH FLOOR NEW YORK, NY 10017		X		Possible Member of 10% Group
Deerfield Special Situations Fund, L.P. 780 3RD AVENUE 37TH FLOOR NEW YORK, NY 10017		X		Possible Member of 10% Group

Signatures

/s/ David Clark

2/19/2015

** Signature of Reporting Person

Date

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.

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.

Joint Filer Information

Names: Deerfield Mgmt, L.P., Deerfield Management Company, L.P.,
Deerfield Special Situations Fund, L.P.

Address: 780 Third Avenue, 37th Floor
New York, NY 10017

Designated Filer: James E. Flynn

Issuer and Ticker Symbol: Invitae Corporation [NVTA]

Date of Earliest Transaction
Required to be Reported: February 18, 2015

The undersigned, Deerfield Mgmt, L.P., Deerfield Management Company, L.P. and Deerfield Special Situations Fund, L.P. are jointly filing the attached Statement of Changes in Beneficial Ownership on Form 4 with James E. Flynn with respect to the beneficial ownership of securities of Invitae Corporation

Signatures:

DEERFIELD MGMT, L.P.

By: J.E. Flynn Capital, LLC, General Partner

By: /s/ David Clark
David Clark, Attorney-In-Fact

DEERFIELD MANAGEMENT COMPANY, L.P.

By: Flynn Management LLC, General Partner

By: /s/ David Clark
David Clark, Attorney-In-Fact

DEERFIELD SPECIAL SITUATIONS FUND, L.P.

By: Deerfield Mgmt, L.P., General Partner

By: J.E. Flynn Capital, LLC, General Partner

By: /s/ David Clark
David Clark, Attorney-In-Fact