

# FORM 4

[ ] 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 *			2. Issuer Name and Ticker or Trading Symbol			5. Relationship of Reporting Person(s) to Issuer (Check all applicable)		
<b>BAKER BROS. ADVISORS LP</b>			<b>Invitae Corp [ NVT A ]</b>			<input type="checkbox"/> Director <input checked="" type="checkbox"/> 10% Owner <input type="checkbox"/> Officer (give title below) <input type="checkbox"/> Other (specify below)		
(Last)	(First)	(Middle)	3. Date of Earliest Transaction (MM/DD/YYYY)					
<b>667 MADISON AVENUE, 21ST FLOOR</b>			<b>7/31/2017</b>					
(Street)			4. If Amendment, Date Original Filed (MM/DD/YYYY)			6. Individual or Joint/Group Filing (Check Applicable Line)		
<b>NEW YORK, NY 10065</b>						<input type="checkbox"/> Form filed by One Reporting Person <input checked="" 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			

**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				
Series A Convertible Preferred	(1)	7/31/2017		P		349760		7/31/2017	(2)	Common Stock	349760	\$8.50	349760	I	See Footnotes (1)(3)(4)
Series A Convertible Preferred	(1)	7/31/2017		P		3109063		7/31/2017	(2)	Common Stock	3109063	\$8.50	3109063	I	See Footnotes (1)(3)(4)

### Explanation of Responses:

- On July 31, 2017, 667, L.P. ("667") and Baker Brothers Life Sciences, L.P. ("Life Sciences", and together with 667 and 14159, L.P., the "Funds") purchased 349,760 and 3,109,063 shares of Series A Convertible Preferred Stock ("Convertible Preferred"), respectively, of Invitae Corporation (the "Issuer") at a price of \$8.50 per share, pursuant to a private placement (the "Private Placement"). The Convertible Preferred is a common stock equivalent with no voting rights and converts into shares of common stock of the Issuer at a conversion price equal to \$8.50 per share, subject to adjustment for events such as stock splits, stock dividends, reorganizations, recapitalizations and other events as provided for in the Certificate of Designation of the Convertible Preferred. The Private Placement is expected to close on August 3, 2017.
- The shares of Convertible Preferred do not expire.
- Baker Bros. Advisors LP (the "Adviser") serves as the Investment Adviser to the Funds. In connection with the services provided by the Adviser, the Adviser receives an asset-based management fee that does not confer any pecuniary interest in the securities held by the Funds. Baker Bros. Advisors (GP) LLC (the "Adviser GP") is the Adviser's sole general partner. Julian C. Baker and Felix J. Baker are principals of the Adviser GP. The Adviser has complete and unlimited discretion and authority with respect to the investment and voting power over the securities held by the Funds. The general partners of the Funds relinquished to the Adviser all discretion and authority with respect to the investment and voting power of the securities held by the Funds.
- Julian C. Baker, Felix J. Baker, the Adviser GP and the Adviser disclaim beneficial ownership of the securities held directly by the Funds except to the extent of their pecuniary interest therein, and this report shall not be deemed an admission that any of Julian C. Baker, Felix J. Baker, the Adviser GP or the Adviser is a beneficial owner of such securities for purposes of Section 16 or any other purpose.

### Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
<b>BAKER BROS. ADVISORS LP</b> <b>667 MADISON AVENUE, 21ST FLOOR</b> <b>NEW YORK, NY 10065</b>		X		
<b>BAKER FELIX</b>				

667 MADISON AVENUE, 21ST FLOOR NEW YORK, NY 10065		X		
BAKER JULIAN 667 MADISON AVENUE, 21ST FLOOR NEW YORK, NY 10065		X		
Baker Bros. Advisors (GP) LLC 667 MADISON AVENUE, 21ST FLOOR NEW YORK, NY New York		X		

**Signatures**

**BAKER BROS. ADVISORS LP Name Scott L. Lessing Title: President /s/Scott L. Lessing** 8/2/2017  
 \_\_\_\_\_  
 \*\*Signature of Reporting Person Date

**/s/ Felix J. Baker** 8/2/2017  
 \_\_\_\_\_  
 \*\*Signature of Reporting Person Date

**/s/ Julian C. Baker** 8/2/2017  
 \_\_\_\_\_  
 \*\*Signature of Reporting Person Date

**BAKER BROS. ADVISORS (GP) LLC Name Scott L. Lessing Title: President /s/Scott L. Lessing** 8/2/2017  
 \_\_\_\_\_  
 \*\*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.

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