

COMPLETE GENOMICS INC  
Form SC 13G  
February 11, 2011

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

**SCHEDULE 13G**

**Under the Securities Exchange Act of 1934  
(Amendment No. \_\_\_)\***

Complete Genomics, Inc.  
(Name of Issuer)  
Common Stock, par value \$0.001 per share  
(Title of Class of Securities)  
20454K 10 4  
(CUSIP Number)  
December 31, 2010  
(Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

- Rule 13d-1(b)
- Rule 13d-1(c)
- Rule 13d-1(d)

\* The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be filed for the purpose of Section 18 of the Securities Exchange Act of 1934 ( Act ) or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

CUSIP No. 20454K 10 4

**1** NAMES OF REPORTING PERSONS  
Prospect Venture Partners III, L.P.

CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)

**2**  
(a)   
(b)  (1)

**3** SEC USE ONLY

**4** CITIZENSHIP OR PLACE OF ORGANIZATION  
Delaware, United States of America

**5** SOLE VOTING POWER  
NUMBER OF 0

**6** SHARED VOTING POWER  
SHARES BENEFICIALLY OWNED BY 3,180,255 (2)

**7** SOLE DISPOSITIVE POWER  
EACH REPORTING PERSON 0

**8** SHARED DISPOSITIVE POWER  
WITH: 3,180,255 (2)

**9** AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  
3,180,255 (2)

CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)

10

o

PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

11

12.2%(3)

TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)

12

PN

(1) This statement on Schedule 13G is filed by Prospect Venture Partners III, L.P., a Delaware limited partnership ( PVP III ) and Prospect Management Co. III, L.L.C., a Delaware limited liability company ( PMC III, together with PVP III, the Reporting Persons ). The Reporting Persons expressly disclaim status as a group for purposes of this Schedule 13G.

(2) The shares are owned by PVP III. The shares include 185,897 shares of Common Stock issuable to PVP III pursuant to outstanding warrants to purchase Common Stock. PMC III serves as the sole general partner of PVP III. As such, PMC III possesses power to direct the voting and disposition of the shares owned by PVP III and may be deemed to have indirect beneficial ownership of the shares held by PVP III. PMC III owns no securities of the Issuer directly. The information with respect to the ownership of the Common Stock by the Reporting Persons filing this statement on Schedule 13G is provided as of December 31, 2010.

(3) This percentage is calculated based upon 25,916,421 shares of the Common Stock outstanding as of November 30, 2010 as set forth in the Issuer's most recent Form 10-Q, filed with the Securities and Exchange Commission (the SEC ) on December 22, 2010.

CUSIP No. 20454K 10 4

**1** NAMES OF REPORTING PERSONS  
Prospect Management Co. III, L.L.C.

CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)

**2**  
(a)   
(b)  (1)

**3** SEC USE ONLY

**4** CITIZENSHIP OR PLACE OF ORGANIZATION  
Delaware, United States of America

**5** SOLE VOTING POWER  
NUMBER OF 0

**6** SHARED VOTING POWER  
SHARES BENEFICIALLY OWNED BY 3,180,255 (2)

**7** SOLE DISPOSITIVE POWER  
EACH REPORTING PERSON 0

**8** SHARED DISPOSITIVE POWER  
WITH: 3,180,255 (2)

**9** AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  
3,180,255 (2)

**10** CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)

o

**11** PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

12.2%(3)

**12** TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)

OO

(1) This statement on Schedule 13G is filed by the Reporting Persons. The Reporting Persons expressly disclaim status as a group for purposes of this Schedule 13G.

(2) The shares are owned by PVP III. The shares include 185,897 shares of Common Stock issuable to PVP III pursuant to outstanding warrants to purchase Common Stock. PMC III serves as the sole general partner of PVP III. As such, PMC III possesses power to direct the voting and disposition of the shares owned by PVP III and may be deemed to have indirect beneficial ownership of the shares held by PVP III. PMC III owns no securities of the Issuer directly. The information with respect to the ownership of the Common Stock by the Reporting Persons filing this statement on Schedule 13G is provided as of December 31, 2010.

(3) This percentage is calculated based upon 25,916,421 shares of the Common Stock outstanding as of November 30, 2010 as set forth in the Issuer's most recent Form 10-Q, filed with the SEC on December 22, 2010.

Introductory Note: This statement on Schedule 13G is filed on behalf of the Reporting Persons, in respect of shares of Common Stock, par value \$0.001 per share ( Common Stock ), of Complete Genomics, Inc. (the Issuer ).

**Item 1(a). Name of Issuer:**

Complete Genomics, Inc.

**Item 1(b). Address of Issuer's Principal Executive Officers:**

2071 Stierlin Court  
Mountain View, California 94043

**Item 2(a). Name of Person(s) Filing:**

Prospect Venture Partners III, L.P. ( PVP III )  
Prospect Management Co. III, L.L.C. ( PMC III )

**Item 2(b). Address of Principal Business Office:**

Prospect Venture Partners  
435 Tasso Street, Suite 200  
Palo Alto, California 94301

**Item 2(c). Citizenship:**

PVP III is a Delaware limited partnership.  
PMC III is a Delaware limited liability company.

**Item 2(d). Title of Class of Securities:**

Common Stock, par value \$0.001 per share.

**Item 2(e). CUSIP Number:**

20454K 10 4

**Item 3. If This Statement is Filed Pursuant to Rule 13d-1(b), or 13d-2(b) or (c), Check Whether the Person Filing is a:**

Not applicable.

**Item 4(a). Amount Beneficially Owned:****Item 4(b). Percent of Class:****Item 4(c). Number of shares as to which such persons have:**

The following information with respect to the ownership of the Common Stock by the Reporting Persons filing this statement on Schedule 13G is provided as of December 31, 2010:

Reporting Persons	Shares of	Common	Shared		Beneficial	Percentage
	Common	Stock	Dispositive	Power (1)		
	Stock	Issuable			(1)	Class
	Held	Upon	Shared	Power (1)		(1)(3)
	Directly	Exercise of	Voting			
		Common	Power (1)			
		Stock				
		Purchase				
		Warrant				
PVP III	2,994,358	185,897	3,180,255	3,180,255	3,180,255	12.2%
PMC III (2)	0	0	3,180,255	3,180,255	3,180,255	12.2%

- (1) Represents the number of shares of Common Stock currently underlying all Securities held by the Reporting Persons.
- (2) PMC III serves as the sole general partner of PVP III. As such, PMC III possesses power to direct the voting and disposition of the shares owned by PVP III and may be deemed to have indirect beneficial ownership of the shares held by PVP III. PMC III owns no securities of the Issuer directly.
- (3) This percentage is calculated based upon 25,916,421 shares of the Common Stock outstanding as of November 30, 2010 as set forth in the Issuer's most recent Form 10-Q, filed with the SEC on December 22, 2010.

**Item 5. Ownership of Five Percent or Less of a Class:**

If this statement is being filed to report the fact that as of the date hereof, the Reporting Persons have ceased to be the beneficial owner of more than five percent of the class of securities, check the following: o

**Item 6. Ownership of More Than Five Percent on Behalf of Another Person:**

Not applicable.

**Item 7. Identification and Classification of the Subsidiary which Acquired the Security Being Reported on by the Parent Holding Company:**

Not applicable.

**Item 8. Identification and Classification of Members of the Group:**

Not applicable.

**Item 9. Notice of Dissolution of Group:**

Not applicable.

**Item 10. Certification:**

Not applicable.

SIGNATURES

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Dated: February 11, 2011

PROSPECT VENTURE PARTNERS III,  
L.P.

By: Prospect Management Co. III, L.L.C.  
Its: General Partner

/s/ Lori Hoover-Simotas  
Lori Hoover-Simotas  
Attorney-in-Fact

PROSPECT MANAGEMENT CO. III,  
L.L.C.

/s/ Lori Hoover-Simotas  
Lori Hoover-Simotas  
Attorney-in-Fact

**Exhibit(s):**

99.1: Joint Filing Statement

Exhibit A: Power of Attorney