

SUNPOWER CORP  
Form SC 13G/A  
September 10, 2010

SCHEDULE 13G

Amendment No. 2  
SunPower Corporation  
Class A Common Stock  
Cusip #867652109

Cusip #867652109  
Item 1: Reporting Person - FMR LLC  
Item 4: Delaware  
Item 5: 341,963  
Item 6: 0  
Item 7: 1,316,788  
Item 8: 0  
Item 9: 1,316,788  
Item 11: 2.311%  
Item 12: HC

Cusip #867652109  
Item 1: Reporting Person - Edward C. Johnson 3d  
Item 4: United States of America  
Item 5: 0  
Item 6: 0  
Item 7: 1,316,788  
Item 8: 0  
Item 9: 1,316,788  
Item 11: 2.311%  
Item 12: IN

SCHEDULE 13G - TO BE INCLUDED IN  
STATEMENTS  
FILED PURSUANT TO RULE 13d-1(b) or 13d-2(b)

Item 1(a). Name of Issuer:  
SunPower Corporation

Item 1(b). Name of Issuer's Principal Executive Offices:  
3939 North First Street  
San Jose, CA 95134

Item 2(a). Name of Person Filing:  
FMR LLC

Item 2(b). Address or Principal Business Office or, if None,  
Residence:  
82 Devonshire Street, Boston,

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Massachusetts 02109

Item 2(c). Citizenship:

Not applicable

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

Class A Common Stock

Item 2(e). CUSIP Number:

867652109

Item 3. This statement is filed pursuant to Rule 13d-1(b) or 13d-2(b) and the person filing, FMR LLC, is a parent holding company in accordance with Section 240.13d-1(b)(ii)(G). (Note: See Item 7).

Item 4. Ownership

(a) Amount Beneficially Owned: 1,316,788

(b) Percent of Class: 2.311%

(c) Number of shares as to which such person has:

(i) sole power to vote or to direct the vote: 341,963

(ii) shared power to vote or to direct the vote: 0

(iii) sole power to dispose or to direct the disposition of: 1,316,788

(iv) shared power to dispose or to direct the disposition of: 0

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 person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following (X).

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.

See attached Exhibit A.

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

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Not applicable. See attached Exhibit A.

Item 9. Notice of Dissolution of Group.

Not applicable.

Item 10. Certification.

Inasmuch as the reporting persons are no longer the beneficial owners of more than five percent of the number of shares outstanding, the reporting persons have no further reporting obligation under Section 13(d) of the Securities and Exchange Commission thereunder, and the reporting persons have no obligation to amend this Statement if any material change occurs in the facts set forth herein.

Signature

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.

September 09, 2010  
Date

/s/ Scott C. Goebel  
Signature

Scott C. Goebel  
Duly authorized under Power of Attorney  
effective as of June 1, 2008 by and on behalf of FMR LLC  
and its direct and indirect subsidiaries

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Pursuant to the instructions in Item 7 of Schedule 13G, Fidelity Management & Research Company ("Fidelity"), 82 Devonshire Street, Boston, Massachusetts 02109, a wholly-owned subsidiary of FMR LLC and an investment adviser registered under Section 203 of the Investment Advisers Act of 1940, is the beneficial owner of 974,825 shares or 1.711% of the Class A Common Stock outstanding of SunPower Corporation ("the Company") as a result of acting as investment adviser to various investment companies registered under Section 8 of the Investment Company Act of 1940. The number of shares of Class A Common Stock of SunPower Corporation owned by the investment companies at August 31, 2010 included 391,667 shares of Class A Common Stock resulting from the assumed conversion of \$10,340,000 principal amount of SUNPOWER CORP CV 4.75% 4/15/14 (37.8788 shares of Class A Common Stock for each \$1,000 principal amount of debenture). The number of shares of Class A Common Stock of SunPower Corporation owned by the investment companies at August 31, 2010 included 573,458 shares of Class A Common Stock resulting from the assumed conversion of \$12,920,000 principal amount of SUNPOWER

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CV 4.5% 3/15/15 (44.3853 shares of Class A Common Stock for each \$1,000 principal amount of debenture).

Edward C. Johnson 3d and FMR LLC, through its control of Fidelity, and the funds each has sole power to dispose of the 974,825 shares owned by the Funds.

Members of the family of Edward C. Johnson 3d, Chairman of FMR LLC, are the predominant owners, directly or through trusts, of Series B voting common shares of FMR LLC, representing 49% of the voting power of FMR LLC. The Johnson family group and all other Series B shareholders have entered into a shareholders' voting agreement under which all Series B voting common shares will be voted in accordance with the majority vote of Series B voting common shares. Accordingly, through their ownership of voting common shares and the execution of the shareholders' voting agreement, members of the Johnson family may be deemed, under the Investment Company Act of 1940, to form a controlling group with respect to FMR LLC.

Neither FMR LLC nor Edward C. Johnson 3d, Chairman of FMR LLC, has the sole power to vote or direct the voting of the shares owned directly by the Fidelity Funds, which power resides with the Funds' Boards of Trustees. Fidelity carries out the voting of the shares under written guidelines established by the Funds' Boards of Trustees.

Pyramis Global Advisors, LLC ("PGALLC"), 900 Salem Street, Smithfield, Rhode Island, 02917, an indirect wholly-owned subsidiary of FMR LLC and an investment adviser registered under Section 203 of the Investment Advisers Act of 1940, is the beneficial owner of 306,424 shares or 0.538% of the outstanding Class A Common Stock of SunPower Corporation as a result of its serving as investment adviser to institutional accounts, non-U.S. mutual funds, or investment companies registered under Section 8 of the Investment Company Act of 1940 owning such shares. The number of shares of Class A Common Stock of SunPower Corporation owned by the institutional account(s) at August 31, 2010 included 63,637 shares of Class A Common Stock resulting from the assumed conversion of \$1,680,000 principal amount of SUNPOWER CORP CV 4.75% 4/15/14 (37.8788 shares of Class A Common Stock for each \$1,000 principal amount of debenture). The number of shares of Class A Common Stock of SunPower Corporation owned by the institutional account(s) at August 31, 2010 included 242,787 shares of Class A Common Stock resulting from the assumed conversion of \$5,470,000 principal amount of SUNPOWER CV 4.5% 3/15/15 (44.3853 shares of Class A Common Stock for each \$1,000 principal amount of debenture).

Edward C. Johnson 3d and FMR LLC, through its control of PGALLC, each has sole dispositive power over 306,424 shares and sole power to vote or to direct the voting of 306,424 shares of Class A Common Stock owned by the institutional accounts or funds advised by PGALLC as reported above.

Pyramis Global Advisors Trust Company ("PGATC"), 900 Salem Street, Smithfield, Rhode Island, 02917, an indirect wholly-owned subsidiary of FMR LLC and a bank as defined

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in Section 3(a)(6) of the Securities Exchange Act of 1934, is the beneficial owner of 35,539 shares or 0.062% of the outstanding Class A Common Stock of the SunPower Corporation as a result of its serving as investment manager of institutional accounts owning such shares. The number of shares of Class A Common Stock of SunPower Corporation owned by the institutional account(s) at August 31, 2010 included 7,576 shares of Class A Common Stock resulting from the assumed conversion of \$200,000 principal amount of SUNPOWER CORP CV 4.75% 4/15/14 (37.8788 shares of Class A Common Stock for each \$1,000 principal amount of debenture). The number of shares of Class A Common Stock of SunPower Corporation owned by the institutional account(s) at August 31, 2010 included 27,963 shares of Class A Common Stock resulting from the assumed conversion of \$630,000 principal amount of SUNPOWER CV 4.5% 3/15/15 (44.3853 shares of Class A Common Stock for each \$1,000 principal amount of debenture).

Edward C. Johnson 3d and FMR LLC, through its control of Pyramis Global Advisors Trust Company, each has sole dispositive power over 35,539 shares and sole power to vote or to direct the voting of 35,539 shares of Class A Common Stock owned by the institutional accounts managed by PGATC as reported above.

### SCHEDULE 13G - TO BE INCLUDED IN STATEMENTS

FILED PURSUANT TO RULE 13d-1(b) or 13d-2(b)  
RULE 13d-1(f)(1) AGREEMENT

The undersigned persons, on September 09, 2010, agree and consent to the joint filing on their behalf of this Schedule 13G in connection with their beneficial ownership of the Class A Common Stock of SunPower Corporation at August 31, 2010.

FMR LLC

By /s/ Scott C. Goebel  
Scott C. Goebel  
Duly authorized under Power of Attorney effective as of June 1, 2008, by and on behalf of FMR LLC and its direct and indirect subsidiaries

Edward C. Johnson 3d

By /s/ Scott C. Goebel  
Scott C. Goebel  
Duly authorized under Power of Attorney effective as of June 1, 2008, by and on behalf of Edward C. Johnson 3d

Fidelity Management & Research Company

By /s/ Scott C. Goebel  
Scott C. Goebel  
Senior V.P. and General Counsel

