

LEDESMA BRUCE

Form 4

February 16, 2010

FORM 4**UNITED STATES SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549**

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

**STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF
SECURITIES**

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934,
Section 17(a) of the Public Utility Holding Company Act of 1935 or Section
30(h) of the Investment Company Act of 1940

OMB APPROVAL

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(Print or Type Responses)

1. Name and Address of Reporting Person *
LEDESMA BRUCE

(Last) (First) (Middle)

C/O SUNPOWER
CORPORATION, 3939 NORTH
FIRST STREET

(Street)

SAN JOSE, CA 95134

(City) (State) (Zip)

2. Issuer Name **and** Ticker or Trading
Symbol
SUNPOWER CORP [SPWRA]

3. Date of Earliest Transaction
(Month/Day/Year)
02/11/2010

4. If Amendment, Date Original
Filed(Month/Day/Year)

5. Relationship of Reporting Person(s) to
Issuer

(Check all applicable)

____ Director ____ 10% Owner
__X__ Officer (give title below) ____ Other (specify
below)

General Counsel & Corp. Sec.

6. Individual or Joint/Group Filing(Check
Applicable Line)
__X__ Form filed by One Reporting Person
____ Form filed by More than One Reporting
Person

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

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction 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)
Class A Common Stock	02/11/2010		M	3,333 A	\$ 0 35,835	D	
Class A Common Stock	02/11/2010		F	1,223 D	\$ 20.22 34,612	D	

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

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SEC 1474
(9-02)

number.

Table II - Derivative Securities Acquired, Disposed of, or 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. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction 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 (Month/Day/Year)		7. Title and Amount of Underlying Securities (Instr. 3 and 4)		8. Pr Dep Secu (Instr	
				Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Restricted Stock Units (RSUs)	(1)	02/11/2010		M		3,333		(2)	(2)	Class A Common Stock	3,333
											\$

Reporting Owners

Reporting Owner Name / Address	Relationships
	Director 10% Owner Officer Other
LEDESMA BRUCE C/O SUNPOWER CORPORATION 3939 NORTH FIRST STREET SAN JOSE, CA 95134	General Counsel & Corp. Sec.

Signatures

Donald T. Rozak, Jr., CP, as attorney-in-fact for Bruce
Ledesma

02/16/2010

**Signature of Reporting Person

Date

Explanation of Responses:

* 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).

(1) Each RSU represents a contingent right to receive one share of the Issuer's Class A Common Stock upon vesting.

(2) The RSUs shall vest in three equal installments on each of February 11, 2010, February 11, 2011 and February 11, 2012.

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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