

Wenger Howard
 Form 4
 February 02, 2010

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

OMB APPROVAL

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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, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting Person *
 Wenger Howard

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

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)
 C/O SUNPOWER CORPORATION, 3939 NORTH FIRST STREET

3. Date of Earliest Transaction (Month/Day/Year)
 01/31/2010

____ Director _____ 10% Owner
 Officer (give title below) _____ Other (specify below)
 President, U&PP

(Street)
 SAN JOSE, CA 95134

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

6. Individual or Joint/Group Filing(Check Applicable Line)
 Form filed by One Reporting Person
 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. 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 Ownership (Instr. 4)	
				(A) or (D)	Price			
				Code	V	Amount		
Class A Common Stock	01/31/2010		M	3,569	A	\$ 0	60,627	D
Class A Common Stock	02/01/2010		F	1,310	D	\$ 21.07	59,317	D
Class A Common Stock	01/31/2010		M	1,333	A	\$ 0	60,650	D
Class A Common Stock	02/01/2010		F	489	D	\$	60,161	D

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Common Stock 21.07

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

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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 Security (Instr. 3 and 4)
Performance-Based Restricted Stock Units (PSUs)	(1)	01/31/2010		M	3,569	(2) (2)	Class A Common Stock 3,569
Restricted Stock Units (RSUs)	(3)	01/31/2010		M	1,333	(4) (4)	Class A Common Stock 1,333

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Wenger Howard C/O SUNPOWER CORPORATION 3939 NORTH FIRST STREET SAN JOSE, CA 95134			President, U&PP	

Signatures

Donald T. Rozak, Jr., CP, as attorney-in-fact for Howard Wenger 02/02/2010

**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 PSU represents a contingent right to receive one share of the Issuer's Class A Common Stock upon vesting.

(2) On January 31, 2008, Reporting Person was awarded a number of PSUs within a preset range, with the actual number contingent upon the achievement of certain performance criteria. The Compensation Committee of the Issuer's Board of Directors confirmed achievement of the performance criteria on January 29, 2009 and, based on that assessment, determined the number of PSUs. The PSUs vest in three equal installments on each of January 31, 2009, January 31, 2010 and January 31, 2011.

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

(4) The RSUs vest in three equal installments on each of January 31, 2009, January 31, 2010 and January 31, 2011.

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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