

☐ 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

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

OMB APPROVAL	
OMB Number:	3235-0287
Estimated average burden	
hours per response:	0.5

1. Name and Address of Reporting Person * <u>WERNER THOMAS H</u>  (Last) (First) (Middle) <u>C/O SUNPOWER CORPORATION</u> <u>3939 NORTH FIRST STREET</u>  (Street) <u>SAN JOSE</u> <u>CA</u> <u>95134</u>  (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol <u>SUNPOWER CORP</u> [ <u>SPWRA</u> ]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)  <input checked="" type="checkbox"/> Director 10% Owner  <input checked="" type="checkbox"/> Officer (give title below) Other (specify below)  <u>Chief Executive Officer</u>
	3. Date of Earliest Transaction (Month/Day/Year) <u>10/23/2009</u>	
	4. If Amendment, Date of Original Filed (Month/Day/Year)	

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)
			Code	V	Amount	(A) or (D)	Price			
Class A Common Stock	10/23/2009 <sup>(1)</sup>		M		25,000	A	\$3.3	99,033	D	
Class A Common Stock	10/23/2009 <sup>(1)</sup>		S		23,000	D	\$28.6395 <sup>(2)</sup>	76,033	D	
Class A Common Stock	10/23/2009 <sup>(1)</sup>		S		2,000	D	\$29.759 <sup>(3)</sup>	74,033	D	

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 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: 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				
Stock Option (Right to Buy)	\$3.3	10/23/2009		M			25,000	<sup>(1)</sup> (4)	06/17/2014	Class A Common Stock	25,000	\$0	178,343	D	

Explanation of Responses:

1. The transactions reported on this Form 4 were effected pursuant to a previously adopted rule 10b5-1 trading plan by the reporting person.
2. Price reflects weighted average sales price; actual sales prices ranged from \$28.284 to \$29.25. The reporting person undertakes to provide, upon request by the Commission staff, the Issuer, or a security holder of the Issuer, full information regarding the number of shares purchased or sold at each separate price.
3. Price reflects weighted average sales price; actual sales prices ranged from \$29.50 to \$30.05. The reporting person undertakes to provide, upon request by the Commission staff, the Issuer, or a security holder of the Issuer, full information regarding the number of shares purchased or sold at each separate price.
4. The option to purchase shares of Issuer's Class A Common Stock, awarded on June 17, 2004, vested and became exercisable as to 20% of the total underlying shares on June 17, 2005, and vests and becomes exercisable as to 1 2/3% of the total underlying shares on the 17th day of each month thereafter.

Remarks:

Donald T. Rozak, Jr., CP, as  
attorney-in-fact for Thomas H. Werner 10/27/2009

\*\* 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.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.