## FORM 4

Check this box if no longer subject to Section 16. Form 4 or Form 5

obligations may continue. See Instruction 1(b).

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, I	D.C.	20549
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OMB APPROVAL

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

Name and Address of Reporting Person*     Wenger Howard				2. Issuer Name <b>and</b> Ticker or Trading Symbol SUNPOWER CORP [ SPWRA ]								(Che	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)  Director 10% Owner  Officer (give title Other (specify					
(Last) (First) (Middle) C/O SUNPOWER CORPORATION 3939 NORTH FIRST STREET					3. Date of Earliest Transaction (Month/Day/Year) 01/29/2009								below)	below) Bus. Units	·			
(Street)			5134		4. II	4. If Amendment, Date of Original Filed (Month/Day/Year)  6. Int Line)									Form filed by More than One Reporting			
(City)	(Sta	te) (2	Zip)											Person				
Table I - Nor 1. Title of Security (Instr. 3)			2. Tran	saction	vative Securities Acquired, Disposed of, or Benefi saction  2A. Deemed Execution Date, Transaction  2. Securities Acquired (A) Disposed Of (D) (Instr. 3,						(A) or	or 5. Amount of 64 and 5) Securities F			: Direct	7. Nature of Indirect		
			(Month	n/Day/Y	/Day/Year) if any (Month/Day/Year)		Code (8)	(Instr.	Amount (A) or Pr		Price	Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)		(D) or Indirect (I) (Instr. 4)		Beneficial Ownership (Instr. 4)		
Class A Common Stock			01/3	1/31/2009				М		3,569	A	\$0	64,574			D		
Class A Common Stock			02/0	02/2009				F		1,276	D	\$31.88	63,298			D		
Class A Common Stock			01/3	01/31/2009				M		1,333	A	\$0	64,631			D		
Class A Common Stock		02/0	02/02/2009				F		477 D		\$31.88	64,154			D			
		-						•		•	osed of, o		-	wned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security		3A. Deeme Execution if any (Month/Da	Date,	4. Transa Code 8)				6. Date Exerc Expiration D (Month/Day/		ate	7. Title an of Securit Underlyin Derivative (Instr. 3 an	g Security	8. Price of Derivative Security (Instr. 5)	9. Number derivative Securitie Beneficia Owned Following Reported	e Owners Form Direct or Inc. (I) (Inc. Inc. Inc. Inc. Inc. Inc. Inc. Inc.	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercis	sable	Expiration Date	Title	Amount or Number of Shares		Transact (Instr. 4)			
Performance- Based Restricted Stock Units (PSUs)	(1)	01/29/2009			A		10,707		(2)	)	(2)	Class A Common Stock	10,707	\$0	10,70	07	D	
Performance- Based Restricted Stock Units (PSUs)	(1)	01/31/2009			M			3,569	(2)	)	(2)	Class A Common Stock	3,569	\$0	7,13	88	D	
Restricted Stock Units (RSUs)	(3)	01/31/2009			M			1,333	(4)	)	(4)	Class A Common Stock	1,333	\$0	2,66	i7	D	

## **Explanation of Responses:**

- 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 shall 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 PSUs shall vest in three equal installments on each of January 31, 2009, January 31, 2010 and January 31, 2011.

## Remarks:

<u>Donald T. Rozak, Jr., CP, as</u> <u>attorney-in-fact for Howard</u>

02/02/2009

<u>Wenger</u>

\*\* Signature of Reporting Person

Date

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

- $^{\star}$  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.

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