FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT	OF CHANGES	IN BENEFICIAL	OWNERSHIP

	OMB APPRO	VAL
	OMB Number:	3235-0287
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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

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					SUNPOWER CORP [SPWRA] SERIATIONSHIP OF Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner X Officer (give title Other (specify												ner		
(Last) (First) (Middle) C/O SUNPOWER CORPORATION 3939 NORTH FIRST STREET				3. Date of Earliest Transaction (Month/Day/Year) 02/28/2011									President, Util. & Pwr Plants			, , , , , , , , , , , , , , , , , , , ,			
(Street) SAN JOSE			5134		- 4. II	Amer	ndment, [Date of	of Original Filed (Month/Day/Year)						ndividual or Joint/Group Filing (Check Applicable e) X Form filed by One Reporting Person Form filed by More than One Reporting Pers				
(City)	(Sta		Zip) 	lon-Deri	ivativ	e Se	curitie	<u>.</u>	auir	ed Die	no bezons	or Be	nef	icially (Owned				
1. Title of Security (Instr. 3) 2. Translated Date			2. Transa	Transaction 2 Date E		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 ar			5. Amoun Securities Beneficia Owned Fo	Amount of		: Direct Indirect str. 4)	7. Nature of Indirect Beneficial Ownership		
							Ì	Code	v .	Amount	nount (A) or (D) Price		e	Reported Transaction(s) (Instr. 3 and 4)				(Instr. 4)	
Class A Common Stock			03/01/	2011				S ⁽¹⁾	\sqcap	2,000	D	\$17	7.3581 ⁽²⁾	42,	365		D		
Class A Common Stock			03/01/	01/2011				M		10,229	Α		\$0 52		594		D		
Class A Common Stock			03/01/	03/01/2011				F ⁽³⁾	П	3,752	D	\$	17.23	48,	3,842		D		
Class A Common Stock			03/01/	/2011				M	\sqcap	23,333	Α		\$0 72,1		175		D		
Class A Common Stock 03			03/01/	2011			F ⁽³⁾		8,559	D	\$17.23		63,616			D			
			Table I								osed of, convertib				wned				
1. Title of Derivative Security (Instr. 3)	2. Conversion Date (Month/Day/Ye Price of Derivative Security		3A. Dee Execution if any (Month/		4. Transaction Code (Instr. 8)				Expiration (Month/D) or			of Sec Under	7. Title and Amou of Securities Underlying Derivative Securi (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficiall Owned Following Reported	e s ally g	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership ct (Instr. 4)
				,	Code	v	(A)	(D)		ate xercisabl	Expiration e Date	ı Title		Amount or Number of Shares		Transaction(s (Instr. 4)			
Performance- Based Restricted Stock Units (PSUs)	(4)	02/28/2011			A		30,688			(5)	(5)	Class Comm Stoo	ion	30,688	\$0	30,68	38	D	
Performance-												Class	A						

Explanation of Responses

(4)

(6)

- 1. The sale reported on this Form 4 was 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 \$16.97 to \$17.80. 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.

10,229

23,333

(5)

(7)

(5)

(7)

Common

Stock

Class A

Commor

Stock

10,229

23,333

\$<mark>0</mark>

\$0

20,459

46,667

D

D

- 3. Disposition of shares exempt under Rule 16b-3 as payment of tax liability to Company by delivery or withholding securities incident to vesting of restricted stock shares.
- 4. Each PSU represents a contingent right to receive one share of the Issuer's Class A Common Stock upon vesting.
- 5. On August 5, 2010, 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 February 28, 2011 and, based on that assessment, determined the number of PSUs. The PSUs vest in three equal installments on each of March 1, 2011, March 1, 2012 and March 1, 2013.
- $6.\ Each\ RSU\ represents\ a\ contingent\ right\ to\ receive\ one\ share\ of\ the\ Issuer's\ Class\ A\ Common\ Stock\ upon\ vesting.$
- 7. The RSUs shall vest in three equal installments on each of March 1, 2011, March 1, 2012 and March 1, 2013.

Remarks:

Restricted

(PSUs)

(RSUs)

Stock Units

Stock Units

Karla Rogers, as attorney-in-fact for Howard Wenger 03/02/2011

** 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).

03/01/2011

03/01/2011

** 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.