FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL									
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Section 16. Form 4 or Form 5	
obligations may continue. See	
Instruction 1(h)	

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

1. Name and Address of Reporting Person* ARRIOLA DENNIS V						2. Issuer Name and Ticker or Trading Symbol SUNPOWER CORP [SPWRA]											5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner						
(Last)			(Middle)		3. D	Date of Earliest Transaction (Month/Day/Year)									\dashv	X	Officer (give title below)			Other (s	specify		
C/O SUNPOWER CORPORATION 3939 N. FIRST STREET					02/	/11/20	011								EVP	& Chief Financial Officer			er				
(Street)						Ame	ndment	t, Date	of C	Original F	Filed	(Month/D		6. Individual or Joint/Group Filing (Check Applicable Line)									
SAN JOSE CA 95134																X Form filed by One Reporting Person Form filed by More than One Reporting Person							
(City)	(Si	tate) ((Zip)																				
		Tab	le I - Noi	n-Deriv	ative	Sec	curitie	es Ac	qu	ired, I	Disp	osed (of, o	r Ben	neficia	ılly O	wned	t					
1. Title of Security (Instr. 3) 2. Trans Date (Month/I						ar) E	2A. Deemed Execution Date, if any (Month/Day/Year)		•,	Code (Instr.		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 5)				4 and Securit Benefic Owned		es ially Following	Form (D) o	n: Direct or Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership		
						Code	v	Amount		(A) or (D)	Price	Reported Transaction(s) (Instr. 3 and 4)		tion(s)			(Instr. 4)						
Class A Common Stock 02/11/						2011		\prod	M		833		A	\$0		24,966		D					
Class A Common Stock 02/11/2						2011			\bot	F ⁽¹⁾		341		D \$.04	24,625		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. Deeme Execution if any (Month/Da	Date,	4. Transac Code (I 8)		n of		6. Date Exercisal Expiration Date (Month/Day/Year)				7. Title and Amount of Securities Underlying Derivative Securi (Instr. 3 and 4)			Deriva Secui	Price of crivative curity str. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	у	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		
					Code	v	(A)	(D)	Date Exe	te ercisable		opiration	Title	N C	Amount or Number of Shares								
Restricted Stock Units (RSUs)	(2)	02/11/2011			M			833		(3)		(3)	Clas Comi Sto	mon	833	\$()	834		D			

Explanation of Responses:

- 1. 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.
- 2. Each RSU represents a contingent right to receive one share of the Issuer's Class A Common Stock upon vesting.
- 3. The RSUs shall vest in three equal installments on each of February 11, 2010, February 11, 2011 and February 11, 2012.

Remarks:

Karla Rogers, as attorney-infact for Dennis V. Arriola

02/15/2011

** 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).
- ** 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.

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