FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

shington, D.C. 205	49
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OMB APPROVAL								
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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).

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

1. Name and Address of Reporting Person * $\overline{ARRIOLA\ DENNIS\ V}$														5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner					
(Last) (First) (Middle) C/O SUNPOWER CORPORATION						3. Date of Earliest Transaction (Month/Day/Year) 02/28/2011								X Officer (give title below) Other (specify below) EVP & Chief Financial Officer					
3939 NOR	TH FIRST	STREET																	
(Street) SAN JOSE	E CA	g)5134		4. If	f Ame	endment, D	Oate of C	Original Filed (Month/Day/Year)					Form file	ed by One	up Filing (Check Applications The Reporting Person force than One Reporting			
(City)	(Sta	te) (2	Zip)												a by more		ono i topon		
		Tal	ole I - No	n-Deri	vativ	e Se	ecuritie	s Acqı	uired,	Dis	posed of,	or Bene	ficially	Owned					
1. Title of Security (Instr. 3)			2. Transaction Date (Month/Day/Year)		- 1	2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Acquired (A) of Disposed Of (D) (Instr. 3, 4			5. Amount Securities Beneficial Owned Fo	s lly ollowing	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Direct Indirect str. 4)	7. Nature of Indirect Beneficial Ownership		
									Code V		Amount	(A) or (D)	Price	Reported Transaction(s) (Instr. 3 and 4)				(Instr. 4)	
Class A Common Stock				03/0	03/01/2011				M		20,458	A	\$0	45,083			D		
Class A Common Stock				03/0	03/01/2011				F ⁽¹⁾		7,504	D	\$17.23	37,5	37,579		D		
Class A Common Stock				03/0	03/01/2011				M		16,666	A	\$0 5		245		D		
Class A Common Stock			03/0	3/01/2011				F ⁽¹⁾		6,167	D	\$17.23	48,078			D			
									,		osed of, o		•	wned					
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/Day	d 4. Date, Trans Code		action	5. Number of Derivative		6. Date Exer Expiration D (Month/Day/		cisable and 7. Title and A of Securities		d Amount ies g	8. Price of Derivative Security (Instr. 5)	9. Number derivative Securitie Beneficia Owned Following Reported Transacti	e Ownersh s Form: ally Direct (D or Indirect g (I) (Instr.	Ownership	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	V (A) (D)		(D)	Date Exercisable		Expiration Date	Title	Amount or Number of Shares		(Instr. 4)	ion(s)	11(5)		
Performance- Based Restricted Stock Units (PSUs)	(2)	02/28/2011			A		61,376		(3	3)	(3)	Class A Common Stock	61,376	\$0	61,37	76	D		
Performance- Based Restricted Stock Units (PSUs)	(2)	03/01/2011			M			20,458	(3	3)	(3)	Class A Common Stock	20,458	\$0	40,91	18	D		
Restricted Stock Units (RSUs)	(4)	03/01/2011			M			16,666	(5	5)	(5)	Class A Common Stock	16,666	\$0	33,33	34	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 PSU represents a contingent right to receive one share of the Issuer's Class A Common Stock upon vesting.
- 3. On May 3, 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.
- 4. Each RSU represents a contingent right to receive one share of the Issuer's Class A Common Stock upon vesting.
- 5. The RSUs vest in three equal installments on each of March 1, 2011, March 1, 2012 and March 1, 2013.

Remarks:

Karla Rogers, as attorney-in-fact 03/02/2011 for Dennis V. Arriola

** Signature of Reporting Person

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.