FORM 4

obligations may continue. See

Instruction 1(b)

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

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL OMB Number: Estimated average burden hours per response: 0.5

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 [ SPWRB ]								(Check	all app	olicable)	g Person(s) to I	
(Last) (First) (Middle) C/O SUNPOWER CORPORATION 3939 NORTH FIRST STREET					3. Date of Earliest Transaction (Month/Day/Year) 06/01/2010								X	belov	w) ``	below Financial Offi	)`	
(Street) SAN JOSE CA 95134 (City) (State) (Zip)				_   4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Indiv Line) X	Forn Forn	dual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person			
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																		
Date				Date	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 an			d 5) Secu Bene		ficially d Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership
									Code	v	Amount	(A) or (D)	Price		Trans	action(s) 3 and 4)		(Instr. 4)
Class B Common Stock 06/01/20					010	0			P		10,000	A	\$11.51	1 <mark>99</mark> (1)	15,000		I	Held in Trust <sup>(3)</sup>
Class B Common Stock 06/02/2					010	10			P		5,000	A	\$11.1996 <sup>(2)</sup>		20,000		I	Held in Trust <sup>(3)</sup>
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)	Conversion or Exercise Price of Derivative Security  Date (Month/Day/Year)  Date (Month/Day/Year)  If any (Month/Day/Year)  If Any (Month/Day/Year)  Security		4. Transa Code ( 8)	(Instr.	str. Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		Expir (Mon	te Exer ation D th/Day/	Year)	7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)  Amount or Number of Title Shares				9. Number of derivative Securities Beneficially Owned Following Reported Transaction((Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		

## **Explanation of Responses:**

- 1. Price reflects weighted average purchase price; actual purchase prices ranged from \$11.335 to \$11.70. 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 at each separate price.
- 2. Price reflects weighted average purchase price; actual purchase prices ranged from \$11.189 to \$11.20. 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 at each separate price.
- 3. Shares held of record by the Dennis V. Arriola and Janet A. Winnick Family Trust of which Mr. Arriola and his wife are co-trustees.

## Remarks:

Donald T. Rozak, Jr., CP, as 06/03/2010 attorney-in-fact for Dennis V. **Arriola** 

\*\* 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.