ARRIOLA DENNIS V

Check this box

if no longer

subject to

Section 16.

Form 4 or

Form 4 May 05, 2010

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

OMB APPROVAL OMB

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SECURITIES

Form 5 obligations may continue. See Instruction

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

1(b).

Stock

(Print or Type Responses)

1. Name and Address of Reporting Person * 5. Relationship of Reporting Person(s) to 2. Issuer Name and Ticker or Trading ARRIOLA DENNIS V Issuer Symbol SUNPOWER CORP [SPWRA] (Check all applicable) (First) (Middle) (Last) 3. Date of Earliest Transaction (Month/Day/Year) Director 10% Owner X_ Officer (give title Other (specify C/O SUNPOWER 05/03/2010 below) CORPORATION, 3939 NORTH EVP and CFO **FIRST STREET** (Street) 4. If Amendment, Date Original 6. Individual or Joint/Group Filing(Check Filed(Month/Day/Year) Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting SAN JOSE, CA 95134 Person (City) (State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 2. Transaction Date 2A. Deemed 5. Amount of 1. Title of 3. 4. Securities Acquired 6. Ownership 7. Nature of Security (Month/Day/Year) Execution Date, if Transaction(A) or Disposed of (D) Securities Form: Direct Indirect (Instr. 3) Code (Instr. 3, 4 and 5) Beneficially (D) or Beneficial (Month/Day/Year) (Instr. 8) Ownership Owned Indirect (I) (Instr. 4) Following (Instr. 4) Reported (A) Transaction(s) or (Instr. 3 and 4) (D) Price Code V Amount Class A Common 05/03/2010 M \$0 16,027 D 6,666 A Stock Class A Common F D 13.581 D 05/03/2010 2,446

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

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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. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)	5. Number of Derivative Securities Acquired Disposed (Instr. 3, 4	(A) or of (D)	6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Underlying Securities (Instr. 3 and 4)	
				Code V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Restricted Stock Units (RSUs)	(1)	05/03/2010		A	50,000		(2)	(2)	Class A Common Stock	50,000
Restricted Stock Units (RSUs)	<u>(1)</u>	05/03/2010		A	20,000		(3)	(3)	Class A Common Stock	20,000
Restricted Stock Units (RSUs)	(1)	05/03/2010		M		6,666	(3)	(3)	Class A Common Stock	6,666

Reporting Owners

Reporting Owner Name / Address	Relationships							
	Director	10% Owner	Officer	Other				

ARRIOLA DENNIS V C/O SUNPOWER CORPORATION 3939 NORTH FIRST STREET SAN JOSE, CA 95134

EVP and CFO

Signatures

Donald T. Rozak, Jr., CP, as attorney-in-fact for Dennis V. Arriola 05/05/2010

**Signature of Reporting Person

Date

Explanation of Responses:

- * 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).
- (1) Each RSU represents a contingent right to receive one share of the Issuer's Class A Common Stock upon vesting.
- (2) The RSUs vest in three equal installments on each of March 1, 2011, March 1, 2012 and March 1, 2013.

Reporting Owners 2

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(3) The RSUs vest in three equal installments with the first tranche vesting immediately, and the remaining two tranches vesting on each of May 11, 2011 and May 11, 2012.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.