SEC Form 4	
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FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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

OMB APPRO	VAL
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NEESE MAI	Name and Address of Reporting Person* IEESE MARTY T ast) (First) (Middle) /O SUNPOWER CORPORATION 339 NORTH FIRST STREET		2. Issuer Name and Ticker or Trading Symbol <u>SUNPOWER CORP</u> [SPWRA] 3. Date of Earliest Transaction (Month/Day/Year) 02/11/2010		tionship of Reporting Pe all applicable) Director Officer (give title below) Chief Operatin	10% Owner Other (specify below)	
(Street) SAN JOSE	CA	95134	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indiv Line) X	,		
(City)	(State)	(Zip)					

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	Transaction Code (Instr.		4. Securities Disposed Of 5)			5. Amount of Securities Beneficially Owned Following Reported	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	v	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		(1150.4)
Class A Common Stock	02/11/2010		М		2,500	Α	\$ <mark>0</mark>	13,207	D	
Class A Common Stock	02/11/2010		F		1,072	D	\$20.22	12,135	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. Deemed Execution Date, if any (Month/Day/Year)	4. Transa Code (8)		of		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Restricted Stock Units (RSUs)	(1)	02/11/2010		М			2,500	(2)	(2)	Class A Common Stock	2,500	\$0	5,000	D	

Explanation of Responses:

1. Each RSU represents a contingent right to receive one share of the Issuer's Class A Common Stock upon vesting.

2. The RSUs shall vest in three equal installments on each of February 11, 2010, February 11, 2011 and February 11, 2012.

Remarks:

Donald T. Rozak, Jr., CP, as attorney-in-fact for Marty T.

Neese

02/16/2010

Date

** 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.