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

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			of Section So(ii) of the investment Company Act of 1940						
	dress of Reporting	g Person <sup>*</sup>	2. Issuer Name and Ticker or Trading Symbol SUNPOWER CORP [ SPWRA ]		5. Relationship of Reporting Person(s) to Issuer (Check all applicable)				
BUFE UWE-ERNST				X	Director	10% Owner			
(Last) (First) (Middle) C/O SUNPOWER CORPORATION		RATION	3. Date of Earliest Transaction (Month/Day/Year) 05/11/2009		Officer (give title below)	Other (specify below)			
3939 NORTH FIRST STREET			4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indiv Line)	ividual or Joint/Group Filing (Check Applica				
(Street)				X	Form filed by One Re	porting Person			
SAN JOSE	CA	95134			Form filed by More th Person	an One Reporting			
(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)	3. Transa Code (l 8)		Disposed Of (D) (Instr. 3, 4 and			5. Amount of Securities Beneficially Owned Following Reported	Form: Direct (D) or Indirect	7. Nature of Indirect Beneficial Ownership
			Code	v	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		(Instr. 4)

# 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 Exerc Expiration Da (Month/Day/Y	te	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)	Beneficial Ownership (Instr. 4)
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Restricted Stock Units (RSUs) <sup>(1)</sup>	(2)	05/11/2009		A		4,000		(3)	(3)	Class A Common Stock	4,000	\$0	4,000	D	

#### Explanation of Responses:

1. The restricted stock units (RSUs) were granted pursuant to the automatic annual granting provisions for independent directors under the Registrant's Second Amended and Restated 2005 Stock Incentive Plan.

2. Each RSU represents a contingent right to receive one share of the Registrant's Class A Common Stock once vested.

3. The RSUs shall vest in equal quarterly installments over a one-year period on each of August 11, 2009, November 11, 2009, February 11, 2010 and May 11, 2010.

#### Remarks:

#### Donald T. Rozak, Jr., CP, as

attorney-in-fact for Uwe-Ernst 05/12/2009 Bufe

\*\* 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.

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