FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

STATEMENT	OF CHANG	SES IN BE	NEFICIAL	OWNERSHIP
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OMB APPROVAL 3235-0287 Estimated average burden hours per response: 0.5

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b)

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

								, 00											
1. Name and Address of Reporting Person* <u>LEDESMA BRUCE</u>			2. Issuer Name and Ticker or Trading Symbol SUNPOWER CORP [SPWRA]										ck all applic Directo	or 10% Owner			/ner		
	(Firs POWER CC	RPORATION	Middle)		3. Date of Earliest Transaction (Month/Day/Year) 01/31/2010 4. If Amendment, Date of Original Filed (Month/Day/Year)								Y	below) Gene	Officer (give title below) General Counsel &				
(Street) SAN JOSE	E CA	95	5134		4. If A	men	ament,	, Date of	Originai	Filea	(Montn/Da <u>r</u>	y/Year)		Line)	Form fi	led by One led by More	Repo	orting Persor	1
(City)	(Stat	e) (Z	ip)																
		Table	e I - No			_			1	Dis	-	-			/ Owned				
Di			Date	2. Transaction Date (Month/Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Year)		Transaction Code (Instr.		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4			A) or , 4 and 5	Beneficia	es Fo ially (D) Following (I)		: Direct I r Indirect E str. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
									Code	v	Amount	Amount (A) or (D)		Price	Transact	Transaction(s) (Instr. 3 and 4)			11150.4)
Class A Common Stock			01/31	/2010			M		2,231		\	\$ <mark>0</mark>	32,	32,794		D			
Class A Common Stock			02/01	/2010				F		819]		\$21.0 7	31,975			D		
Class A Common Stock			01/31	/2010			M		833 A		\$ <mark>0</mark>	32,808			D				
Class A Common Stock 02/01			/2010		F		306 D S		\$21.07	7 32,502			D						
		Ta									osed of, convertib				Owned				
Derivative Conversion D		3. Transaction Date (Month/Day/Year)	3A. Deer Execution			ction			6. Date Exercisable a Expiration Date (Month/Day/Year)		sable and			ecurity	8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactic (Instr. 4)	i C	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	OI N Of	umber					
Performance- Based Restricted Stock Units (PSUs)	(1)	01/31/2010			М			2,231	(2)		(2)	Class Comm Stock	on 2	2,231	\$0	2,230		D	
Restricted Stock Units	(3)	01/31/2010			М		\top	833	(4)		(4)	Class Comm	A on	833	\$0	834		D	

Explanation of Responses:

- 1. Each PSU represents a contingent right to receive one share of the Issuer?s Class A Common Stock upon vesting,
- 2. On January 31, 2008, 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 January 29, 2009 and, based on that assessment, determined the number of PSUs. The PSUs vest in three equal installments on each of January 31, 2009, January 31, 2010 and January 31, 2011.
- 3. Each RSU represents a contingent right to receive one share of the Issuer?s Class A Common Stock upon vesting.
- 4. The RSUs vest in three equal installments on each of January 31, 2009, January 31, 2010 and January 31, 2011.

Remarks:

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

02/02/2010

Stock

** 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.