FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

	OMB APPROVAL									
	OMB Number:	3235-028								
1	Estimated average h	nurdon								

Officer this box if the 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

OMB Number:	3235-0287								
Estimated average burden									
hours per response:	0.5								

1. Name and Address of Reporting Person* LEDESMA BRUCE						2. Issuer Name and Ticker or Trading Symbol SUNPOWER CORP [SPWRA]									all appli Directo	,		son(s) to Iss 10% Ov Other (s	vner	
(Last) (First) (Middle) C/O SUNPOWER CORPORATION 3939 NORTH FIRST STREET						3. Date of Earliest Transaction (Month/Day/Year) 02/11/2010									X Officer (give title Other (specify below) General Counsel & Corp. Sec.					
(Street) SAN JOSE CA 95134 (City) (State) (Zip)					_ 4. II	4. If Amendment, Date of Original Filed (Month/Day/Year)									ndividual or Joint/Group Filing (Check Applicable c) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
1		Tab	le I - Nor	n-Deriv	ative	e Se	curit	ies Ad	quired	, Dis	posed (of, or Be	enefic	ially	Owne	t				
Date				2. Trans Date (Month/I		ar) E	2A. Deemed Execution Date, if any (Month/Day/Year)		, Transaction Dispos Code (Instr. 5)		Dispose	ities Acquii d Of (D) (In:	red (A) o str. 3, 4 a	4 and Securit Benefic Owned		es ially Following	Form (D) o	n: Direct r Indirect istr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
									Code	v	Amount	(A) o (D)	r Pric	e	Reporte Transac (Instr. 3	ction(s)				
Class A C	Common St	ock		02/11	L/2010	2010			М		3,33	3 A		\$ <mark>0</mark>	35,835		D			
Class A Common Stock 02/11/						2010			F		1,22	1,223 D \$		0.22	34,612		D			
		Т	able II -									, or Ben ble sec			wned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deeme Execution if any (Month/Da	Date,	Date, Transaci Code (In				6. Date E Expiratio (Month/D	n Date	able and 7. Title and Amount of		of S g e Securit	De Se (In	Price of erivative ecurity estr. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	ly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisa		Expiration Date	Title	Amou or Numb of Shares	er						
Restricted Stock Units (RSUs)	(1)	02/11/2010			М			3,333	(2)		(2)	Class A Common Stock	3,33	3	\$0	6,667	5,667 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 Bruce

02/16/2010

Ledesma

** 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.