

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

| OMB APPROVAL | |
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| 1. Name and Address of Reporting Person* <u>Aschenbrenner Peter Claus</u> (Last) (First) (Middle) 3939 NORTH FIRST ST. (Street) SAN JOSE CA 95134 (City) (State) (Zip) | 2. Issuer Name and Ticker or Trading Symbol <u>SUNPOWER CORP [SPWR]</u> | 5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner <input checked="" type="checkbox"/> Officer (give title below) Other (specify below) <u>VP SALES & MARKETING</u> |
| | 3. Date of Earliest Transaction (Month/Day/Year) <u>04/14/2006</u> | |
| 4. If Amendment, Date of Original Filed (Month/Day/Year) | | |

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. Transaction Code (Instr. 8) | | 4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5) | | | 5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4) | 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 | | | |
| Class A Common Stock | 04/14/2006 | | M | | 7,000 | A | \$3.3 | 42,000 | D | |
| Class A Common Stock | 05/22/2006 | | M | | 4,000 | A | \$3.3 | 46,000 | D | |
| Class A Common Stock | 05/22/2006 | | S | | 4,000 | D | \$30.12 | 42,000 | D | |
| Class A Common Stock | 05/23/2006 | | M | | 46,000 | A | \$3.3 | 88,000 | D | |
| Class A Common Stock | 05/23/2006 | | S | | 46,000 | D | \$31.1538 | 42,000 | 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. Transaction Code (Instr. 8) | | 5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) | | 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 |
| Employee Stock Option (Right to Buy) | \$3.3 | 04/14/2006 | | M | | | 7,000 | (1) | 06/17/2014 | Class A Common Stock | 7,000 | \$0 | 336,000 | D | |
| Employee Stock Option (Right to Buy) | \$3.3 | 05/22/2006 | | M | | | 4,000 | (1)(2) | 06/07/2014 | Class A Common Stock | 4,000 | \$0 | 332,000 | D | |
| Employee Stock Option (Right to Buy) | \$3.3 | 05/23/2006 | | M | | | 46,000 | (1)(2) | 06/07/2014 | Class A Common Stock | 46,000 | \$0 | 286,000 | D | |

Explanation of Responses:

- The option became exercisable as to 20% of the shares on June 17, 2005 and becomes exercisable as to 1/60th of the shares monthly thereafter.
- The sales reported on this Form 4 were effected pursuant to a previously adopted Rule 10b5-1 trading plan by the reported person.

/s/ Peter Aschenbrenner 05/24/2006

** 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.