Rakes Zane Form 3 January 14, 2010

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

OMB APPROVAL

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INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF **SECURITIES**

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting

Person *

Rakes Zane

(Last)

(First) (Middle)

Statement

(Month/Day/Year)

01/04/2010

2. Date of Event Requiring 3. Issuer Name and Ticker or Trading Symbol Ascent Solar Technologies, Inc. [ASTI]

> 4. Relationship of Reporting Person(s) to Issuer

> > (Check all applicable)

(give title below) (specify below)

VP of Manufacturing

5. If Amendment, Date Original

Filed(Month/Day/Year)

C/O ASCENT SOLAR TECHNOLOGIES,

INC., 12300 GRANT STREET

(Street)

Director _X__ Officer

10% Owner Other

6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting

Person

Form filed by More than One

Reporting Person

THORNTON, COÂ 80241

(City) (State) (Zip)

1. Title of Security (Instr. 4)

Table I - Non-Derivative Securities Beneficially Owned 2. Amount of Securities

Beneficially Owned (Instr. 4)

3. Ownership 4. Nature of Indirect Beneficial

Ownership (Instr. 5) Form:

Direct (D) or Indirect (I) (Instr. 5)

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

SEC 1473 (7-02)

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Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

Title

1. Title of Derivative Security (Instr. 4)

2. Date Exercisable and **Expiration Date**

(Month/Day/Year)

3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)

5. 4 Conversion or Exercise

6. Nature of Indirect Ownership Beneficial Ownership Form of (Instr. 5) Derivative

Security:

Direct (D)

Expiration Exercisable

Date

Amount or Number of Derivative Security

Price of

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Shares or Indirect
(I)
(Instr. 5)

Common Stock Option (Right to Buy) $\hat{A} \stackrel{(1)}{=} 01/04/2020 \stackrel{Common}{Stock} 10,000 5.39 D \hat{A}

Reporting Owners

Reporting Owner Name / Address

Director 10% Owner Officer Other

Rakes Zane

C/O ASCENT SOLAR TECHNOLOGIES, INC. 12300 GRANT STREET

THORNTON, COÂ 80241

Signatures

Zane Rakes 01/13/2010

**Signature of Person Date

Reporting Person

Explanation of Responses:

- * If the form is filed by more than one reporting person, see Instruction 5(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).
- (1) The stock option vests in the following amounts on the following dates: 25% on January 4, 2011; 25% on January 4, 2012; 25% on January 4, 2013; and 25% on January 4, 2014.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *See* Instruction 6 for procedure. Potential persons who are to 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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