

Misra Mohan  
Form 4  
February 05, 2008

**FORM 4**

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

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

**STATEMENT OF CHANGES IN 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

## OMB APPROVAL

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(Print or Type Responses)

1. Name and Address of Reporting Person \*  
Misra Mohan

(Last) (First) (Middle)

C/O ASCENT SOLAR  
TECHNOLOGIES, INC., 8120  
SHAFFER PARKWAY

(Street)

LITTLETON, CO 80127

(City) (State) (Zip)

2. Issuer Name **and** Ticker or Trading  
Symbol  
Ascent Solar Technologies, Inc.  
[ASTI]

3. Date of Earliest Transaction  
(Month/Day/Year)  
02/01/2008

4. If Amendment, Date Original  
Filed(Month/Day/Year)

5. Relationship of Reporting Person(s) to  
Issuer

(Check all applicable)

☐ Director ☒ 10% Owner  
☒ Officer (give title below) ☐ Other (specify  
below)

Chief Strategy Officer

6. Individual or Joint/Group Filing(Check  
Applicable Line)

☒ Form filed by One Reporting Person  
☐ Form filed by More than One Reporting  
Person

**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 |                                                                                               |                                                          |                                                       |
| Common Stock                    | 02/01/2008                           |                                                    | S <sup>(1)</sup>               |                                                                   | 214    | D \$ 14.96       | 399,786 <sup>(2)</sup>                                                                        | D                                                        |                                                       |
| Common Stock                    | 02/01/2008                           |                                                    | S <sup>(1)</sup>               |                                                                   | 500    | D \$ 15          | 399,286 <sup>(2)</sup>                                                                        | D                                                        |                                                       |
| Common Stock                    | 02/01/2008                           |                                                    | S <sup>(1)</sup>               |                                                                   | 214    | D \$ 15.01       | 399,072 <sup>(2)</sup>                                                                        | D                                                        |                                                       |
| Common Stock                    | 02/01/2008                           |                                                    | S <sup>(1)</sup>               |                                                                   | 71     | D \$ 15.02       | 399,001 <sup>(2)</sup>                                                                        | D                                                        |                                                       |
|                                 | 02/01/2008                           |                                                    | S <sup>(1)</sup>               |                                                                   | 571    | D                | 398,430 <sup>(2)</sup>                                                                        | D                                                        |                                                       |

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|              |            |                  |     |   |  |          |                        |                                            |
|--------------|------------|------------------|-----|---|--|----------|------------------------|--------------------------------------------|
| Common Stock |            |                  |     |   |  | \$ 15.06 |                        |                                            |
| Common Stock | 02/01/2008 | S <sup>(1)</sup> | 463 | D |  | \$ 15.07 | 397,967 <sup>(2)</sup> | D                                          |
| Common Stock | 02/01/2008 | S <sup>(1)</sup> | 357 | D |  | \$ 15.09 | 397,610 <sup>(2)</sup> | D                                          |
| Common Stock | 02/01/2008 | S <sup>(1)</sup> | 286 | D |  | \$ 15.11 | 397,324 <sup>(2)</sup> | D                                          |
| Common Stock | 02/01/2008 | S <sup>(1)</sup> | 143 | D |  | \$ 15.16 | 397,181 <sup>(2)</sup> | D                                          |
| Common Stock | 02/01/2008 | S <sup>(1)</sup> | 71  | D |  | \$ 15.17 | 397,110 <sup>(2)</sup> | D                                          |
| Common Stock | 02/01/2008 | S <sup>(1)</sup> | 286 | D |  | \$ 15.22 | 396,824 <sup>(2)</sup> | D                                          |
| Common Stock |            |                  |     |   |  |          | 842,000                | I                                          |
|              |            |                  |     |   |  |          |                        | By ITN Energy Systems, Inc. <sup>(3)</sup> |

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

**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 control number.**

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(9-02)

**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 Underlying Securities (Instr. 3 and 4) | 8. Price of Derivative Security (Instr. 5) | 9. Number of Derivative Securities Beneficially Owned Following Reported Transaction (Instr. 6) |
|--------------------------------------------|--------------------------------------------------------|--------------------------------------|----------------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------|-------------------------------------------------------------------------------------------------|
|                                            |                                                        |                                      |                                                    | Code                           | V                                                                                       | (A) (D)                                                  | Title                                                         | Amount or Number of Shares                 |                                                                                                 |

## Reporting Owners

Reporting Owner Name / Address

Relationships

Reporting Owners

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|                                                                                                   | Director | 10% Owner | Officer                      | Other |
|---------------------------------------------------------------------------------------------------|----------|-----------|------------------------------|-------|
| Misra Mohan<br>C/O ASCENT SOLAR TECHNOLOGIES, INC.<br>8120 SHAFFER PARKWAY<br>LITTLETON, CO 80127 | X        | X         | Chief<br>Strategy<br>Officer |       |

## Signatures

|                                                       |            |
|-------------------------------------------------------|------------|
| David C. Wang, as attorney-in-fact for Mohan<br>Misra | 02/05/2008 |
|-------------------------------------------------------|------------|

\_\_Signature of Reporting Person

Date

## Explanation of Responses:

- \* 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).
- (1) The sales reported in this Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on June 26, 2007.
- (2) Dr. Misra also holds options to purchase 50,000 shares.
- (3) Dr. Misra indirectly owns 842,000 shares held by ITN Energy Systems, Inc., which is 100% owned by Inica, Inc., a Colorado corporation that is wholly owned by Dr. Misra and an immediate family member.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure.

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