

MECHANICAL TECHNOLOGY INC  
Form SC 13G  
December 26, 2006

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

**SCHEDULE 13G**  
(Rule 13d-102)

**INFORMATION TO BE INCLUDED IN STATEMENTS FILED PURSUANT  
TO RULES 13d-1(b), (c) AND (d) AND AMENDMENTS THERETO FILED  
PURSUANT TO RULE 13d-2**

**Under the Securities Exchange Act of 1934  
(Amendment No. )\***

**MECHANICAL TECHNOLOGY INCORPORATED**

(Name of Issuer)

**Common Stock, \$1.00 par value per share**

(Title of Class of Securities)

**583538103**

(CUSIP Number)

**December 20, 2006**

(Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

- Rule 13d-1(b)
- Rule 13d-1(c)
- Rule 13d-1(d)

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\*The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

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CUSIP No. 583538103

1. Names of Reporting Persons. I.R.S. Identification Nos. of above persons (entities only)  
Capital Ventures International
  2. Check the Appropriate Box if a Member of a Group (See Instructions)
    - (a)
    - (b)
  3. SEC Use Only
  4. Citizenship or Place of Organization  
Cayman Islands
- |   |    |   |
|---|----|---|
|   | 5. | Sole Voting Power<br>2,777,778 (1)        |
| Number of<br>Shares<br>Beneficially<br>Owned by<br>Each<br>Reporting<br>Person With | 6. | Shared Voting Power<br>2,777,778 (1)      |
|   | 7. | Sole Dispositive Power<br>2,777,778 (1)   |
|   | 8. | Shared Dispositive Power<br>2,777,778 (1) |
9. Aggregate Amount Beneficially Owned by Each Reporting Person  
2,777,778 (1)
  10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)
  11. Percent of Class Represented by Amount in Row (9)  
8.1% (2)
  12. Type of Reporting Person (See Instructions)  
CO
-

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- (1) Heights Capital Management, Inc. is the investment advisor to Capital Ventures International and, as such, may exercise voting and dispositive power over these shares.
- (2) Based on 31,675,622 shares of the Issuer's common stock outstanding as of November 3, 2006 as reported on the Issuer's quarterly report on form 10-Q for the quarter ended September 30, 2006.

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- |   |   |   |
|---|---|---|
| 1.  | Names of Reporting Persons. I.R.S. Identification Nos. of above persons (entities only)<br>Heights Capital Management, Inc. |   |
| 2.  | Check the Appropriate Box if a Member of a Group (See Instructions)   |   |
|   | (a)   | o   |
|   | (b)   | o   |
| 3.  | SEC Use Only  |   |
| 4.  | Citizenship or Place of Organization<br>Delaware  |   |
| Number of<br>Shares<br>Beneficially<br>Owned by<br>Each<br>Reporting<br>Person With | 5.  | Sole Voting Power<br>0                    |
|   | 6.  | Shared Voting Power<br>2,777,778 (1)      |
|   | 7.  | Sole Dispositive Power<br>0               |
|   | 8.  | Shared Dispositive Power<br>2,777,778 (1) |
| 9.  | Aggregate Amount Beneficially Owned by Each Reporting Person<br>2,777,778 (1)   |   |
| 10.   | Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) <input type="radio"/>                   |   |
| 11.   | Percent of Class Represented by Amount in Row (9)<br>8.1% (2)   |   |
| 12.   | Type of Reporting Person* (See Instructions)<br>CO  |   |

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(1) Heights Capital Management, Inc. is the investment advisor to Capital Ventures International and, as such, may exercise voting and dispositive power over these shares.

(2) Based on 31,675,622 shares of the Issuer's common stock outstanding as of November 3, 2006 as reported on the Issuer's quarterly report on form 10-Q for the quarter ended September 30, 2006.

Item 1.

- (a) Name of Issuer  
Mechanical Technology Incorporated (the Company )
- (b) Address of Issuer's Principal Executive Offices  
431 New Karner Road, Albany, NY 12205

Item 2.

- (a) Name of Person Filing  
(1) Capital Ventures International (a Reporting Person )  
(2) Heights Capital Management, Inc. (a Reporting Person )
- (b) Address of Principal Business Office or, if none, Residence  
(1) One Capitol Place, P.O. Box 1787 GT, Grand Cayman, Cayman Islands, B.W.I.  
(2) 101 California Street, Suite 3250, San Francisco, California 94111
- (c) Citizenship  
(1) Cayman Islands  
(2) Delaware
- (d) Title of Class of Securities  
Common Stock, \$1.00 par value per share, of the Company ( Common Stock )
- (e) CUSIP Number  
583538103

Item 3.

- If this statement is filed pursuant to §§240.13d-1(b) or 240.13d-2(b) or (c), check whether the person filing is a:
- (a)  Broker or dealer registered under section 15 of the Act (15 U.S.C. 78o).
  - (b)  Bank as defined in section 3(a)(6) of the Act (15 U.S.C. 78c).
  - (c)  Insurance company as defined in section 3(a)(19) of the Act (15 U.S.C. 78c).
  - (d)  Investment company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C 80a-8).
  - (e)  An investment adviser in accordance with §240.13d-1(b)(1)(ii)(E);
  - (f)  An employee benefit plan or endowment fund in accordance with §240.13d-1(b)(1)(ii)(F);
  - (g)  A parent holding company or control person in accordance with § 240.13d-1(b)(1)(ii)(G);
  - (h)  A savings associations as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);
  - (i)  A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15 U.S.C. 80a-3);
  - (j)  Group, in accordance with §240.13d-1(b)(1)(ii)(J).

Item 4. Ownership

Provide the following information regarding the aggregate number and percentage of the class of securities of the issuer identified in Item 1.

- |     |  |   |
|-----|--|---|
| (1) | Capital Ventures International               |   |
| (a) | Amount beneficially owned:                   |   |
|     |  | 2,777,778 (1)   |
| (b) | Percent of class:                            |   |
|     |  | 8.1%  |
| (c) | Number of shares as to which the person has: |   |
|     | (i)  | Sole power to vote or to direct the vote                |
|     |  | 2,777,778 (1)   |
|     | (ii)   | Shared power to vote or to direct the vote              |
|     |  | 2,777,778 (1)   |
|     | (iii)  | Sole power to dispose or to direct the disposition of   |
|     |  | 2,777,778 (1)   |
|     | (iv)   | Shared power to dispose or to direct the disposition of |
|     |  | 2,777,778 (1)   |
| (2) | Heights Capital Management, Inc.             |   |
| (a) | Amount beneficially owned:                   |   |
|     |  | 2,777,778 (1)   |
| (b) | Percent of class:                            |   |
|     |  | 8.1%  |
| (c) | Number of shares as to which the person has: |   |
|     | (i)  | Sole power to vote or to direct the vote                |
|     |  | 0   |
|     | (ii)   | Shared power to vote or to direct the vote              |
|     |  | 2,777,778 (1)   |
|     | (iii)  | Sole power to dispose or to direct the disposition of   |
|     |  | 2,777,778 (1)   |
|     | (iv)   | Shared power to dispose or to direct the disposition of |
|     |  | 0   |
|     |  | 2,777,778 (1)   |

Item 5. Ownership of Five Percent or Less of a Class

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following .

Item 6. Ownership of More than Five Percent on Behalf of Another Person  
Not applicable

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on By the Parent Holding Company or Control Person  
Not applicable

Item 8. Identification and Classification of Members of the Group  
Not applicable

Item 9. Notice of Dissolution of Group  
Not applicable

Item 10. Certification  
By signing below, I certify that, to the best of my knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

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**Signature**

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After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Date: December 22, 2006

Capital Ventures International

By: Heights Capital Management, Inc.,  
pursuant to a Limited Power of Attorney, a copy  
of which is filed as Exhibit A hereto.

By: /s/ Todd Silverberg  
Todd Silverberg, Secretary

Heights Capital Management, Inc.

By: /s/ Todd Silverberg  
Todd Silverberg, Secretary

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**EXHIBIT INDEX**

<b>EXHIBIT</b>	<b>DESCRIPTION</b>
A	Limited Power of Attorney
B	Joint Filing Agreement, dated December 22, 2006, pursuant to Rule 13d-1(k) between Capital Ventures International and Heights Capital Management, Inc.
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**LIMITED POWER OF ATTORNEY**

THIS LIMITED POWER OF ATTORNEY given on the 3rd day of April, 1999 by Capital Ventures International (hereinafter called the Company ), whose Registered Office is situated at Second Floor, One Capital Place, P.O. Box 1781, Grand Cayman Islands, B.W.I.

WHEREAS, by agreement dated March 10, 1997, by and between the Company and Heights Capital Management, the Company expressly authorized Heights Capital Management to enter into transactions in certain designated areas as defined in the Agreement attached hereto marked Appendix 1.

NOW THIS DEED WITNESSETH that Ian A.N. Wight (Director) and Woodburne Associates (Cayman) Limited (Secretary) of the Company, hereby appoint on behalf of the Company the firm of HEIGHTS CAPITAL MANAGEMENT which through its officers, directors and employees is hereby formally granted limited power of attorney for the purpose of entering into transactions on behalf of and for the account of the Company and to take any actions on behalf of the Company as may be necessary to consummate such transactions, including but not limited to instructing the transfer of funds where necessary and executing required documentation.

IN WITNESS WHEREOF, the Company has caused its common seal to be hereunto affixed the day and year above written.

THE COMMON SEAL OF  
CAPITAL VENTURES INTERNATIONAL  
was hereunto affixed in the presence of:

/s/ Ian A.N. Wight  
Ian A.N. Wight  
(Director)

/s/ Woodburne Associates  
Woodburne Associates  
(Cayman) Limited  
Secretary

JOINT FILING AGREEMENT

The undersigned hereby agree that the statement on Schedule 13G with respect to the shares of Common Stock of Mechanical Technology Incorporated, dated December 22, 2006, and any amendments thereto signed by each of the undersigned shall be filed on behalf of each of them pursuant to and in accordance with the provisions of 13d-1(k) under the Securities Exchange Act of 1934.

Date: December 22, 2006

Capital Ventures International

By: Heights Capital Management, Inc.  
pursuant to a Limited Power of Attorney, a  
copy of which is filed as Exhibit A to the  
Schedule 13G

By: /s/ Todd Silverberg  
Todd Silverberg, Secretary

Date: December 22, 2006

Heights Capital Management, Inc.

By: /s/ Todd Silverberg  
Todd Silverberg, Secretary