

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549
SCHEDULE 13G
Under the Securities Exchange Act of 1934
(Amendment No. ___) *

Capstone Turbine Corporation

(Name of Issuer)

Common Stock

(Title of Class of Securities)

14067D102

(CUSIP Number)

with a copy to:

Austin W. Marx Allen B. Levithan, Esq.
527 Madison Avenue, Suite 2600 Lowenstein Sandler PC
New York, New York 10022 65 Livingston Avenue
Roseland, New Jersey 07068
(973) 597-2406

(Name, Address and Telephone Number of Person
Authorized to Receive Notices and Communications)

December 31, 2007

(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)

*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
disclosures provided in a prior cover page.

The information required on 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).

Cusip No. 14067D102 13G

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1. Names of Reporting Persons. I.R.S. Identification Nos. of above persons
(entities only):

Austin W. Marx and David M. Greenhouse

2. Check the Appropriate Box if a Member of a Group (See
Instructions):

- (a) [] Not Applicable
(b) []

3. SEC Use Only

4. Source of Funds (See Instructions): 00

5. Check if Disclosure of Legal Proceedings Is Required Pursuant to
Items 2(d) or 2(e):

Not Applicable

6. Citizenship or Place of Organization: United States

Number of 7. Sole Voting Power: 0

Shares Beneficially 8. Shared Voting Power: 7,770,390*

Owned by

Each Reporting 9. Sole Dispositive Power: 0

Person With 10. Shared Dispositive Power: 7,770,390*___

11. Aggregate Amount Beneficially Owned by Each Reporting Person:

7,770,390*

12. Check if the Aggregate Amount in Row (11) Excludes Certain Shares

(See Instructions): Not Applicable

13. Percent of Class Represented by Amount in Row (11): 5.2%*

14. Type of Reporting Person (See Instructions): IA, IN

* This is a joint filing by Austin W. Marx (Marx) and David M. Greenhouse (Greenhouse). Marx and Greenhouse share sole voting and investment power over 1,117,130 Common Shares and 438,597 warrants to purchase common shares owned by Special Situations Cayman Fund, L.P., 4,000,000 Common Shares and 1,578,948 warrants to purchase common shares owned by Special Situations Fund III QP, L.P., and 460,277 Common Shares and 175,438 warrants to purchase common shares owned by Special Situations Fund III, L.P. See Items 2 and 4 of this Schedule for additional information.

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Item 1. Security and Issuer:

(a) Capstone Turbine Corporation

(b) 21211 Nordhoff Street, Chatsworth, CA 91311

Item 2. (a) Name of Person Filing:

The persons filing this report are Austin W. Marx (Marx) and David M. Greenhouse (Greenhouse), who are the controlling principals of AWM Investment Company, Inc. (AWM), the general partner of and investment adviser to Special Situations Cayman Fund, L.P. (Cayman). AWM also serves as the general partner of MGP Advisers Limited Partnership (MGP), the general partner of and investment adviser to Special Situations Fund III, L.P. (SSF3) and the general partner of Special Situations Fund III QP, L.P. (SSFQP). AWM serves as the investment adviser to SSFQP. (SSF3, SSFQP, and Cayman will hereafter be referred to as, the Funds). The principal business of each Fund is to invest in equity and equity-related securities and other securities of any kind or nature.

(b) Address of Principal Business Office or, if none, Residence:

The principal business address for Marx and Greenhouse is 527 Madison Avenue, Suite 2600, New York, NY 10022.

(c) Citizenship:

Austin W. Marx and David M. Greenhouse are United States citizens.

(d) Title of Class of Securities: Common Stock

(e) CUSIP Number: 14067D102.

Item 3. If this statement is filed pursuant to §240.13d-1(b) or 240.13d-2(b), check whether

the person filing is a: Not Applicable

(a) () Broker or Dealer registered under section 15 of the Act;

(b) () Bank as defined in section 3(a) (6) of the Act;

(c) () Insurance Company as defined in section 3(a) (19) of the Act;

(d) () Investment Company registered under section 8 of the Investment Company Act of 1940;

(e) () An Investment Adviser in accordance with §240.13d

-1(b) (I) (ii) (E);

(f) () An employee benefit plan or endowment fund in accordance with §240.13d-1(b)(1)(ii)(F);

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(g) () A parent holding company or control person in accordance with §240.13d-

1(b)(1)(ii)(G);

(h) () A savings association as defined in Section 3(b) of the Federal Deposit Insurance

Act;

(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;

(j) () Group, in accordance with §240.13d-1(b)(1)(ii)(J).

Item 4. Ownership:

(a) Amount Beneficially Owned: Messrs. Marx and Greenhouse beneficially own a total of 7,770,390 Common Shares. This amount includes 1,117,130 Common Shares and 438,597 warrants to purchase common shares owned by Cayman, 4,000,000 Common Shares and 1,578,948 warrants to purchase common shares owned by SSFQP, and 460,277 Common shares and 175,438 warrants to purchase common shares owned by SSF3.

(b) Percent of Class: Messrs. Marx and Greenhouse beneficially own 5.2% of the shares outstanding. Cayman owns 1.1% of the outstanding shares, SSFQP owns 3.8% of the outstanding shares and SSF3 owns 0.4% of the outstanding shares.

(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: 7,770,390

(iii) Sole power to dispose or to direct the disposition of: 0

(iv) Shared power to dispose or to direct the disposition of: 7,770,390

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: Not Applicable.

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

Item 9. Notices of Dissolution of Group: Not applicable.

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Item 10. Certification:

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were acquired and are held in the ordinary course of

business and 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.

SIGNATURE

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.

Dated: February 11, 2008

/s/ Austin W. Marx
AUSTIN W. MARXE

/s/ David M. Greenhouse
DAVID M. GREENHOUSE

Attention: Intentional misstatements or omissions of fact constitute Federal
criminal violations (See 18 U.S.C. 1001).

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JOINT FILING AGREEMENT

Austin W. Marx and David M. Greenhouse hereby agree that the Schedule
13G to which this agreement is attached is filed on behalf of each of them.

/s/_Austin W. Marx
Austin W. Marx

/s/_David M. Greenhouse
David M. Greenhouse

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