#### CLEAN DIESEL TECHNOLOGIES INC

Form SC 13G/A

February 13, 2013 UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549 SCHEDULE 13G Under the Securities Exchange Act of 1934 (Amendment No. \_2\_) Clean Diesel Technologies, Inc. (Name of Issuer) Common Shares, Par Value \$0.01 (Title of Class of Securities) 18449C401 (CUSIP Number) with a copy to: Allen B. Levithan, Esq. Austin W. Marxe 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, 2012 (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 section of the Act but shall be subject to all other provisions of the (however, see the Notes).

Cusip No. 18449C401 13G Page 2 of 6 Pages 1. Names of Reporting Persons. I.R.S. Identification Nos. of above persons (entities only):

Austin W. Marxe and David M. Greenhouse

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2.
               Check the Appropriate Box if a Member of a Group (See
Instructions):
        (a)
               [ ]
                              Not Applicable
        (b)
               [
                   1
        3.
             SEC Use Only
        4.
             Source of Funds (See Instructions): 00
             Check if Disclosure of Legal Proceedings Is Required Pursuant
Items 2(d) or 2(e):
                               Not Applicable
               Citizenship or Place of Organization:
                                                     United States
        Number of
                       7.
                             Sole Voting Power:
                                                   0
        Shares Beneficially
                              8. Shared Voting Power: 519,196*
       Owned by
                      9. Sole Dispositive Power: 0
10. Shared Dispositive Power: 519,196*___
       Each Reporting 9.
       Person With
              Aggregate Amount Beneficially Owned by Each Reporting Person:
         519,196*
               Check if the Aggregate Amount in Row (11) Excludes Certain
       12.
Shares
               (See Instructions):
                                                              Not Applicable
               Percent of Class Represented by Amount in Row (11):
        13.
        14.
               Type of Reporting Person (See Instructions): IA, IN
* This is a joint filing by Austin W. Marxe (?Marxe?) and David M.
Greenhouse
(?Greenhouse?). Marxe and Greenhouse share sole voting and investment
over 85,566 Common Shares owned by Special Situations Cayman Fund, L.P.,
250,936 Common Shares owned by Special Situations Fund III QP, L.P.,
Common Shares owned by Special Situations Private Equity Fund, L.P.,
20,761
Common Shares owned by Special Situations Technology Fund, L.P., and
Common Shares owned by Special Situations Technology Fund II, L.P. See
2 and 4 of this Schedule for additional information.
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Item 1. Security and Issuer:

- (a) Clean Diesel Technologies, Inc.
- (b) 4567 Telephone Road, Suite 206, Ventura, CA 93003

[tem 2. (a) Name of Person Filing:

The persons filing this report are Austin W. Marxe (?Marxe?) and David M. Greenhouse (?Greenhouse?), who are the controlling principals of  ${\sf AWM}$ 

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 Special Situations Fund III QP, L.P. (?SSFQP?). Marxe and

Greenhouse are members of MG Advisers L.L.C. (?MG?), the general partner of

Special Situations Private Equity Fund, L.P. (?SSPE?). Marxe and Greenhouse

are also members of SST Advisers, L.L.C. (?SSTA?), the general partner of Special Situations Technology Fund, L.P. (?Tech?) and Special Situations Technology Fund II, L.P. (?Tech II?). AWM serves as the investment adviser to

SSFQP, SSPE, Tech and Tech 2. (SSFQP, Cayman, SSPE, Tech and Tech II 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 Marxe and Greenhouse is 527 Madison Avenue, Suite 2600, New York, NY 10022.

(c) Citizenship:

 $\mbox{Austin W. Marxe and David M. Greenhouse are United States citizens.} \label{eq:marxeq}$ 

- (d) Title of Class of Securities: Common Shares (e) CUSIP Number: 18449C401.
- 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  $\boldsymbol{8}$  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)(I)(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 (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; Group, in accordance with \$240.13d-1(b)(1)(ii)(J). (i) (i) Item 4. Ownership: (a) Amount Beneficially Owned: Messrs. Marxe and Greenhouse beneficially own a total of 519,196 Common Shares. This amount includes 85,566 Common Shares owned by Cayman, 250,936 Common Shares owned by SSFQP, 33,704 Common Shares owned by SSPE, 20,761 Common Shares owned by Tech and 128,229 Common Shares owned by Tech II. (b) Percent of Class: Messrs. Marxe and Greenhouse beneficially own 7.2% of the outstanding shares, of which Cayman owns 1.2% of the outstanding shares, SSFQP owns 3.5% of the outstanding shares, SSPE owns 0.5% of the outstanding shares, Tech owns 0.3% of the outstanding shares and Tech II 1.8% of the outstanding shares. (c) Number of Shares as to which the person has: Sole power to vote or to direct the vote: 0 (i) Shared power to vote or to direct the vote: 519,196 (ii) (iii) Sole power to dispose or to direct the disposition of: 0 Shared power to dispose or to direct the disposition of: (iv) 519,196 Item 5. Ownership of Five Percent or Less of a Class: If this statement being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more that five percent of class of securities, check the following \_\_\_. Item 6.Ownership of More than Five Percent on Behalf of Another Person: Applicable.

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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.

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,  ${\rm I}$  certify that the information set forth in this statement is true, complete and correct.

Dated: February 5, 2013

/s/ Austin W. Marxe 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. Marxe and David M. Greenhouse hereby agree that the Schedule  $13\mbox{G}$  to which this agreement is attached is filed on behalf of each of them.

 $/s/\_{\tt Austin~W.~Marxe}$  Austin W. Marxe

/s/\_David M. Greenhouse David M. Greenhouse

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