

Edgar Filing: PLUG POWER INC - Form SC 13G

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 Shares Beneficially Owned by Each Reporting Person With | 7. Sole Voting Power: | 0 |
| 2,120,000 Common Shares | 8. Shared Voting Power: | 2,060,000 Common |
| Owned by | 9. Sole Dispositive Power: | 0 |
| Each Reporting Person With | 10. Shared Dispositive Power: | 2,060,000 |
| 2,120,000 Common Shares | | |
| 11. Aggregate Amount Beneficially Owned by Each Reporting Person: | | |
| 2,060,000 Common Shares ¹ and Warrants ² to purchase 2,120,000 Common Shares | | |
| 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): | | 9.1% |
| 14. Type of Reporting Person (See Instructions): | | IA, IN |

¹ This is a joint filing by Austin W. Marxe (?Marxe?) and David M. Greenhouse (?Greenhouse?). Marxe and Greenhouse share sole voting and investment power over 407,110 shares of Common Stock and 419,145 Warrants² to purchase common shares owned by Special Situations Private Equity Fund, L.P., 225,380 shares of Common Stock and 231,239 Warrants² to purchase common shares owned by Special Situations Technology Fund, L.P. and 1,427,510 shares of Common Stock and 1,469,616 Warrants² to purchase common shares owned by Special Situations Technology Fund II, L.P. See Items 2 and 4 of this Schedule for additional information.

² The warrants describe herein may be exercised to the extent that the total number of shares of Common Stock then beneficially owned does not exceed 4.99%. The percentages of ownership reported in row 13 and item 4, do not reflect such warrants.

Item 1. Security and Issuer:

(a) PlugPower, Inc.

(b) 968 Albany Sharer Road, Lathamm NY 12110

Item 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 AWM

Edgar Filing: PLUG POWER INC - Form SC 13G

Investment Company, Inc. (?AWM?). Marxe and Greenhouse are members of MG Advisers L.L.C. (?MG?), the general partner of Special Situations Private Equity Fund, L.P. (?SSPE?), and members of SST Advisers, L.L.C. (?SSTA?), the general partner of Special Situations Technology Fund, L.P. (?Technology?) and Special Situations Technology Fund II, L.P. (?Tech II?). AWM serves as investment adviser to SSPE, Technology and Tech II. (SSPE, Technology 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:

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

(d) Title of Class of Securities: Common Stock

(e) CUSIP Number: 72919P202.

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) (I) (ii) (F);

Page 4 of 6 Pages

- (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. Marxe and Greenhouse beneficially own a total of 2,060,000 shares of Common Stock and 2,120,000 Warrants² to purchase Common Shares. This amount includes 407,110 shares of Common Stock and 419,145 Warrants² to purchase Common Shares owned by SSPE, 225,380 shares of Common Stock and 231,239 Warrants² to purchase Common Shares owned by Technology and 1,427,510 shares of Common Stock and 1,496,616

Edgar Filing: PLUG POWER INC - Form SC 13G

Warrants2 to purchase Common Shares owned by Tech II.

(b) Percent of Class: Messrs. Marx and Greenhouse beneficially own 9.1% of the shares outstanding, of which SSPE owns 1.8% of the outstanding shares, Technology owns 1.0% of the outstanding shares and Tech II owns 6.3% 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: 2,060,000
Common Shares1 and Warrants2 to purchase 2,120,000 Common
Shares

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

(iv) Shared power to dispose or to direct the disposition of:
2,060,000 Common Shares1 and Warrants2 to purchase 2,120,000
Common Shares

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.

Page 5 of 6 Pages

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

Edgar Filing: PLUG POWER INC - Form SC 13G

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 13, 2012

/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).

Page 6 of 6 Pages

JOINT FILING AGREEMENT

Austin W. Marxe 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. Marxe
Austin W. Marxe

/s/_David M. Greenhouse
David M. Greenhouse

-6-

S5313/1
1319328.02