

INOVIO PHARMACEUTICALS, INC.
 Form 3
 February 03, 2011

FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

OMB APPROVAL

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INITIAL STATEMENT OF 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

(Print or Type Responses)

| | | |
|-------------------------------------------|--------------------------------------------------|------------------------------------------------------|
| 1. Name and Address of Reporting Person * | 2. Date of Event Requiring Statement | 3. Issuer Name and Ticker or Trading Symbol |
| Â MARXE AUSTIN W & GREENHOUSE DAVID M | (Month/Day/Year) 01/24/2011 | INOVIO PHARMACEUTICALS, INC. [INO] |
| (Last) (First) (Middle) | | |
| | 4. Relationship of Reporting Person(s) to Issuer | 5. If Amendment, Date Original Filed(Month/Day/Year) |

C/O SPECIAL SITUATIONS FUNDS,Â 527 MADISON AVENUE, SUITE 2600
 (Street)

(Check all applicable)

___ Director ___X___ 10% Owner
 ___ Officer ___ Other
 (give title below) (specify below)

6. Individual or Joint/Group Filing(Check Applicable Line)
 ___X___ Form filed by One Reporting Person
 ___ Form filed by More than One Reporting Person

NEW YORK,Â NYÂ 10022
 (City) (State) (Zip)

Table I - Non-Derivative Securities Beneficially Owned

| 1. Title of Security (Instr. 4) | 2. Amount of Securities Beneficially Owned (Instr. 4) | 3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5) | 4. Nature of Indirect Beneficial Ownership (Instr. 5) |
|------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------|
| Common Stock | 21,130,400 ⁽¹⁾ | I ⁽¹⁾ | By Limited Partnership ⁽¹⁾ |

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

SEC 1473 (7-02)

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Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

| 1. Title of Derivative Security (Instr. 4) | 2. Date Exercisable and Expiration Date (Month/Day/Year) | 3. Title and Amount of Securities Underlying Derivative Security | 4. Conversion or Exercise | 5. Ownership Form of | 6. Nature of Indirect Beneficial Ownership |
|-----------------------------------------------|-------------------------------------------------------------|------------------------------------------------------------------|---------------------------|----------------------|--------------------------------------------|
|-----------------------------------------------|-------------------------------------------------------------|------------------------------------------------------------------|---------------------------|----------------------|--------------------------------------------|

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| | Date Exercisable | Expiration Date | (Instr. 4) Title | Amount or Number of Shares | Price of Derivative Security | Derivative Security: Direct (D) or Indirect (I) (Instr. 5) | (Instr. 5) |
|---------|------------------|-----------------|---------------------|----------------------------|------------------------------|------------------------------------------------------------|----------------------------|
| Warrant | 07/26/2011 | 01/27/2016 | Common Stock | 10,562,500 (2) | \$ 1.4 | I (2) | By Limited Partnership (2) |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|-----------------------------------------------------------------------------------------------------------------------------|---------------|-----------|---------|-------|
| | Director | 10% Owner | Officer | Other |
| MARXE AUSTIN W & GREENHOUSE DAVID M C/O SPECIAL SITUATIONS FUNDS 527 MADISON AVENUE, SUITE 2600 NEW YORK, NY 10022 | Â | Â X | Â | Â |

Signatures

Austin Marxe 02/03/2011
 __Signature of Date
 Reporting Person

David 02/03/2011
 Greenhouse
 __Signature of Date
 Reporting Person

Explanation of Responses:

* If the form is filed by more than one reporting person, see Instruction 5(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) This is a joint filing by Austin W. Marxe (Marxe) and David M. Greenhouse (Greenhouse). They share voting and investment control over all securities owned by Special Situations Fund III QP, L.P. (SSFQP), Special Situations Cayman Fund, L.P. (Cayman), Special Situations Private Equity Fund, L.P. (PE) and Special Situations Life Sciences Fund, L.P. (LS). 12,173,900 shares of Common Stock are held by SSFQP, 3,913,000 shares of Common Stock are held by Cayman, 2,869,600 shares of Common Stock are held by PE and 2,173,900 shares of Common Stock are held by LS. The interest of Marxe and Greenhouse in the shares of Common Stock owned by SSFQP, Cayman, PE and LS is limited to the extent of his pecuniary interest.

(2) This is a joint filing by Austin W. Marxe (Marxe) and David M. Greenhouse (Greenhouse). They share voting and investment control over all securities owned by Special Situations Fund III QP, L.P. (SSFQP), Special Situations Cayman Fund, L.P. (Cayman), Special Situations Private Equity Fund, L.P. (PE) and Special Situations Life Sciences Fund, L.P. (LS). 6,086,950 Warrants are held by SSFQP, 1,956,500 Warrants are held by Cayman, 1,434,800 Warrants are held by SSPE and 1,086,950 Warrants are held by LS. The interest of Marxe and Greenhouse in the shares of warrants owned by SSFQP, Cayman, PE and LS is limited to the extent of his pecuniary interest.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, See Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.