

IONATRON, INC.  
Form 8-K  
March 24, 2006

**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
WASHINGTON, DC 20549**

**FORM 8-K**

**CURRENT REPORT PURSUANT  
TO SECTION 13 OR 15(D) OF THE  
SECURITIES EXCHANGE ACT OF 1934**

Date of report (Date of earliest event reported) March 23, 2006

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IONATRON, INC.

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(Exact Name of Registrant as Specified in Its Charter)

Delaware

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(State or Other Jurisdiction of Incorporation)

001-14015  
(Commission File Number)

77-0262908  
(IRS Employer Identification No.)

3950 East Columbia, Tucson, Arizona  
(Address of Principal Executive Offices)

85714  
(Zip Code)

(520) 628-7415

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(Registrant's Telephone Number, Including Area Code)

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(Former Name or Former Address, if Changed Since Last Report)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions (*see* General Instruction A.2. below):

- Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
- Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)

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- o Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
  - o Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))
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**Item 5.02. Departure of Directors or Principal Officers; Election of Directors; Appointment of Principal Officers**

On March 23, 2006, Robert Howard resigned as Chairman of the Board and as a director of the Registrant. Mr. Howard's resignation was not because of a disagreement with the Registrant, known to an executive officer of the Registrant, on any matter relating to the Registrant's operations, policies or practices.

On March 23, 2006, the Board of Directors appointed David Hurley, who had recently been appointed as Lead Independent Director, to serve as non-executive Chairman of the Board.

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SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the Registrant has duly caused this report to be signed on its behalf by the undersigned thereunto duly authorized.

IONATRON, INC.  
(Registrant)

By: /s/ Thomas Dearmin  
Thomas Dearmin  
President and Chief Executive Officer

Date: March 23, 2006

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