

IONATRON, INC.  
Form 8-K  
August 31, 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) August 23, 2006

IONATRON, INC.

---

(Exact Name of Registrant as Specified in Its Charter)

Delaware

---

(State or Other Jurisdiction of Incorporation)

001-14015  
(Commission File Number)

77-0262908  
(IRS Employer Identification No.)

3716 East Columbia, Suite 120, Tucson,  
Arizona  
(Address of Principal Executive Offices)

85714  
(Zip Code)

(520) 628-7415

---

(Registrant's Telephone Number, Including Area Code)

---

(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)
- Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
- Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))



**Item 8.01 Other Events**

On August 23, 2006, with an effective date of September 1, 2006, Joseph C. Hayden, the Executive Vice President-Programs and Contracts of Ionatron, Inc. (the "Company") and Stephen McCahon, the Company's Executive Vice President-Technology, each entered into a Sales Plan with a brokerage firm under Rule 10b5-1 of the Securities Exchange Act of 1934. Such plans allow a corporate insider to gradually diversify holdings of his company's common stock while minimizing any market effects of such trades by spreading them out over an extended period of time and eliminating any market concern that such trades were made by a person while in possession of material nonpublic information.

Mr. Hayden's 10b5-1 plan provides for the sales of 50,000 shares of the Company's common stock per month over a 12 month period up to a maximum of 600,000 shares with minimum sales prices of \$5.00 as to 480,000 of the shares and \$8.00 as to 120,000 of the shares. Mr. McCahon's 10b5-1 plan provides for the sales of 60,000 shares of the Company's common stock per month over a ten month period up to a maximum of 600,000 shares with a minimum sales price of \$5.00. All sales under the 10b5-1 plans are subject to the terms and conditions thereof.

**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/ Kenneth M. Wallace

---

Name: Kenneth M. Wallace

Title: Chief Operating Officer and  
Chief Financial Officer

Date: August 31, 2006