

IONATRON, INC.  
Form 8-K  
May 16, 2007

**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) May 11, 2007

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.)

3716 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; Compensatory Arrangements of Certain Officers.**

On May 11, 2007, the Compensation Committee of the Board of Directors of the Company authorized an increase in the base salary of Kenneth M. Wallace, the Company's Chief Operating Officer and Chief Finance Officer, from \$190,000 to \$210,000. The increase was automatically effective to February 1, 2007, and therefore also resulted in an additional one-time payment of approximately \$4,600 to Mr. Wallace.

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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/ Dana A. Marshall  
Dana A. Marshall  
President and Chief Executive Officer

Date: May 16, 2007