IONATRON, INC. Form 4 January 31, 2007

## FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

**SECURITIES** 

OMB Number:

**OMB APPROVAL** 

Expires:

3235-0287 January 31,

2005

0.5

Estimated average

5. Relationship of Reporting Person(s) to

burden hours per response...

Section 16. Form 4 or Form 5 obligations may continue.

Check this box

if no longer

subject to

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

2. Issuer Name and Ticker or Trading

1(b).

Stock

Stock

Common

01/30/2007

(Print or Type Responses)

1. Name and Address of Reporting Person \*

See Instruction

				Symbol IONATRON, INC. [IOTN] 3. Date of Earliest Transaction (Month/Day/Year) 01/29/2007					Issuer  (Check all applicable)				
													(Last) (First) (Middle)
COLUMBIA STREET - SUITE 120													
									, ,				
	TUCSON, A	AZ 85714	·					Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting					
	(City)	(State)	(Zip)	Tab	la I Non I	Dorivotivo	Soone		Person	or Ronoficial	ly Owned		
	1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)		a Date, if Transactiom Disposed of (D) Code (Instr. 3, 4 and 5) Pay/Year) (Instr. 8)  (A) or				quired (A)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	curities Ownership Indirect neficially Form: Beneficial yned Direct (D) Ownership llowing or Indirect (Instr. 4) ported (I) ansaction(s) (Instr. 4)			
	Common Stock	01/29/2007			Code V $S_{\underline{(1)}}$	Amount 3,360	(D)	\$ 5.2901	5,947,608	D			
	Common	01/30/2007			S <u>(1)</u>	56,640	D	\$ 5 2111	5,890,968	D			

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

 $S^{(1)}$ 

12,000 D

Persons who respond to the collection of SEC 1474 information contained in this form are not (9-02)required to respond unless the form displays a currently valid OMB control

5,878,968

D

5.2111

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#### number.

# Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of	2.	3. Transaction Date	3A. Deemed	4.	5.	6. Date Exerc	cisable and	7. Title and	d 8.	Price of	9. Nu
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transaction	onNumber	Expiration D	ate	Amount of	f De	erivative	Deriv
Security	or Exercise		any	Code	of	(Month/Day/	Year)	Underlying	g Se	curity	Secui
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Derivative	e		Securities	(Ir	nstr. 5)	Bene
	Derivative				Securities			(Instr. 3 an	nd 4)		Owne
	Security				Acquired						Follo
					(A) or						Repo
					Disposed						Trans
					of (D)						(Instr
					(Instr. 3,						
					4, and 5)						
								A	4		
									ount		
						Date	Expiration	or T'(1 N			
						Exercisable	Date		nber		
				G 1 17	(A) (D)			of			
				Code V	(A) (D)			Shai	res		

## **Reporting Owners**

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

MCCAHON STEPHEN WILLIAM IONATRON, INC. 3716 E. COLUMBIA STREET - SUITE 120 TUCSON, AZ 85714

**Executive VP Engineering** 

# **Signatures**

/s/ Stephen

McCahon 01/31/2007

\*\*Signature of Person Date

Reporting Person

## **Explanation of Responses:**

- \* If the form is filed by more than one reporting person, see Instruction 4(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).

This sale was made pursuant to a trading plan previously entered into by the reporting person and complies with the requirements of Rule (1) 10b5-1(c)(1) under the Securities Exchange Act of 1934, as amended. The reporting person terminated the 10b5-1 plan after the close of trading on January 31, 2007.

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.

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