

DEMARINES VICTOR  
Form 4  
September 10, 2009

**FORM 4** UNITED STATES SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549

OMB APPROVAL

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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

**STATEMENT OF CHANGES IN 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 \*  
DEMARINES VICTOR

2. Issuer Name and Ticker or Trading Symbol  
NETSCOUT SYSTEMS INC  
[NTCT]

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)

3. Date of Earliest Transaction (Month/Day/Year)  
09/09/2009

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

C/O NETSCOUT SYSTEMS, INC., 310 LITTLETON ROAD

(Street)

4. If Amendment, Date Original Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check Applicable Line)

Form filed by One Reporting Person  
 Form filed by More than One Reporting Person

WESTFORD, MA 01886

(City) (State) (Zip)

**Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned**

| 1. Title of Security (Instr. 3) | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if any (Month/Day/Year) | 3. Transaction Code (Instr. 8) | 4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) | 5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|----------------------------------------------------|--------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------------------------------------|-----------------------------------|
|                                 |                                      |                                                    |                                | (A) or (D)                                                        | Amount or Price                                                                               |                                                          |                                   |
| Common Stock                    | 09/09/2009                           |                                                    | M                              | A                                                                 | 4,643<br>(1) 17,561                                                                           | D                                                        |                                   |

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

**Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB control number.**

SEC 1474 (9-02)

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

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| 1. Title of Derivative Security (Instr. 3) | 2. Conversion or Exercise Price of Derivative Security | 3. Transaction Date (Month/Day/Year) | 3A. Deemed Execution Date, if any (Month/Day/Year) | 4. Transaction Code (Instr. 8) | 5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5) | 6. Date Exercisable and Expiration Date (Month/Day/Year) | 7. Title and Amount of Underlying Securities (Instr. 3 and 4) | Amount or Number of Shares |
|--------------------------------------------|--------------------------------------------------------|--------------------------------------|----------------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------------|----------------------------|
|                                            |                                                        |                                      |                                                    | Code V (A) (D)                 |                                                                                         | Date Exercisable Expiration Date                         | Title                                                         |                            |
| Restricted Stock Unit                      | (2)                                                    | 09/09/2009                           |                                                    | M                              | 4,643                                                                                   | 09/09/2009 (3)                                           | Common Stock                                                  | 4,643                      |
| Restricted Stock Unit                      | (2)                                                    | 09/09/2009                           |                                                    | A                              | 5,231                                                                                   | (4) (3)                                                  | Common Stock                                                  | 5,231                      |

## Reporting Owners

| Reporting Owner Name / Address                                                             | Relationships |           |         |       |
|--------------------------------------------------------------------------------------------|---------------|-----------|---------|-------|
|                                                                                            | Director      | 10% Owner | Officer | Other |
| DEMARINES VICTOR<br>C/O NETSCOUT SYSTEMS, INC.<br>310 LITTLETON ROAD<br>WESTFORD, MA 01886 | X             |           |         |       |

## Signatures

/s/ Victor  
DeMarines 09/09/2009

\*\*Signature of Reporting Person Date

## 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).
- (1) The shares of Common Stock were acquired upon the vesting of certain Restricted Stock Units previously granted to the reporting person.
- (2) Price is N/A.
- (3) Date is N/A.
- (4) All of the Restricted Stock Units vest on the date of the Company's Annual Meeting to occur in 2010, provided that during the period from the date of grant through the date of such Annual Meeting, the reporting person attends at least 75% of the meetings, collectively, of the Board and any committee of the Board of which the reporting person is a member. In the event that the attendance requirements are not met, the Restricted Stock Units will not become vested until 9/9/2012.

### Remarks:

Exhibit 24.1 Power of Attorney (filed herewith)

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.