

McCarthy Jeffrey P
Form 4
June 20, 2011

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

OMB APPROVAL

OMB Number: 3235-0287
Expires: January 31, 2005
Estimated average burden hours per response... 0.5

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 *
McCarthy Jeffrey P

2. Issuer Name and Ticker or Trading Symbol
A123 SYSTEMS, INC. [AONE]

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)

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

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

C/O A123 SYSTEMS, INC., 200 WEST STREET

06/16/2011

(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

WALTHAM, MA 02451

(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) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|---|
| | | | Code | V Amount (D) Price | | | |
| Common Stock | 06/16/2011 ⁽²⁾ | | A | 10,000 ⁽¹⁾ | A \$ 0 10,000 | D | |
| Common Stock | | | | | 2,470,806 ⁽³⁾ | I | By North Bridge Venture Partners IV-A, L.P. |
| Common Stock | | | | | 1,172,886 ⁽³⁾ | I | By North Bridge Venture Partners IV-B, L.P. |

| | | | | |
|-----------------|--|--------------------------|---|--|
| Common Stock | | 3,499,868 ⁽³⁾ | I | By North Bridge Venture Partners V-A, L.P. |
| Common Stock | | 1,716,059 ⁽³⁾ | I | By North Bridge Venture Partners V-B, L.P. |

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)

| 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) | 8. Price of Derivative Security (Instr. 5) | 9. Nu Deriv Secur Benef Own Follo Repor Trans (Instr |
|---|--|---|---|---|---|--|---|---|--|
| | | | | Code | V (A) (D) | Date Exercisable | Expiration Date | Title | Amount or Number of Shares |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|--|---------------|-----------|---------|-------|
| | Director | 10% Owner | Officer | Other |
| McCarthy Jeffrey P C/O A123 SYSTEMS, INC. 200 WEST STREET WALTHAM, MA 02451 | X | | | |

Signatures

/s/ Eric J. Pyenson, Attorney-in-Fact for Jeffrey P.
McCarthy

06/20/2011

**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) Restricted stock units ("RSUs"). Upon vesting thereof, the Reporting Person is entitled to receive one (1) share of common stock for each one (1) RSU.
 - (2) Beginning on this date, 6.25% of the total number of RSUs will vest at the end of each three-month period, so that 100% of the RSUs will be fully vested on June 16, 2015.
- The reporting person disclaims beneficial ownership of these shares except to the extent of his pecuniary interest therein, and the
- (3) inclusion of these shares in this report shall not be deemed an admission of beneficial ownership of all of the reported shares for purposes of Section 16 or for any other purpose.

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.