VIEAU DAVID P Form 4 August 19, 2011

FORM 4

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

OMB

Check this box if no longer subject to Section 16.

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF **SECURITIES**

3235-0287 Number: January 31, Expires: 2005

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OMB APPROVAL

Form 4 or Form 5 obligations

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934,

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may continue. See Instruction

Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

1(b).

(Print or Type Responses)

| 1. Name and Address of Reporting Person * VIEAU DAVID 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 | () | | |
| C/O A123 SYSTEMS, INC., 200 WEST STREET | | | (Month/Day/Year) 08/17/2011 | _X_ Director 10% Owner _X_ Officer (give title Other (specify below) Chief Executive Office | | |
| | (Street) | | 4. If Amendment, Date Original Filed(Month/Day/Year) | 6. Individual or Joint/Group Filing(Check Applicable Line) | | |
| WALTHAM, MA 02451 | | | | _X_ Form filed by One Reporting Person Form filed by More than One Reporting Person | | |

| (City) | (State) | Zip) Table | I - Non-Do | erivative S | ecuriti | ies Acq | quired, Disposed o | of, or Beneficial | ly Owned |
|--------------------------------------|--------------------------------------|---|--------------------|-------------------------|------------------|---------|--|----------------------------|-------------------------|
| 1.Title of Security (Instr. 3) | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if any | Code | 4. Securition(A) or Dis | | • | 5. Amount of Securities Beneficially | Form: Direct (D) or | Indirect Beneficial |
| | | (Month/Day/Year) | (Instr. 8) Code V | (Instr. 3, 4) Amount | (A) or (D) | Price | Owned Following Reported Transaction(s) (Instr. 3 and 4) | Indirect (I) (Instr. 4) | Ownership (Instr. 4) |
| Common Stock | 08/17/2011 | | A | 80,000 (1) (2) | A | \$0 | 1,050,196 (3) | D | |

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

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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. Transactic Code (Instr. 8) | 5. Number of or Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5) | erivative Expiration Date curities (Month/Day/Year) equired (A) Disposed of (a) str. 3, 4, | | 7. Title and Amount of Underlying Securities (Instr. 3 and 4) | |
|---|---|--------------------------------------|---|--|--|--|--------------------|---|-------------------------------------|
| | | | | Code V | (A) (D) | Date Exercisable | Expiration Date | Title | Amount or Number of Shares |
| Stock Option (right to buy) | \$ 4.21 | 08/17/2011 | | A | 80,000 | <u>(4)</u> | 08/17/2021 | Common Stock | 80,000 |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | | | | | |
|---|---------------|-----------|------------------------|-------|--|--|--|--|
| Reporting Owner Plante, Plantess | Director | 10% Owner | Officer | Other | | | | |
| VIEAU DAVID P C/O A123 SYSTEMS, INC. 200 WEST STREET WALTHAM, MA 02451 | X | | Chief Executive Office | | | | | |

Signatures

/s/ Eric Pyenson, Attorney-in-Fact for David P. Vieau 08/19/2011

**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 (1) RSU.
- (2) 25% of the RSUs will vest on May 20, 2012, and 6.25% of the total number of RSUs will vest at the end of each three-month period thereafter, so that 100% of the RSUs will be fully vested on May 20, 2015.
- (3) Includes 114,001 RSUs.
- Option vests with respect to 25% of the shares subject thereto on May 20, 2012, and 6.25% of the total shares subject to the option will vest at the end of each three-month period thereafter, such that the option will be fully vested and exercisable on May 20, 2015.

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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