Johnson Robert Joseph Form 4 August 21, 2012

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB APPROVAL OMB

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Check this box if no longer subject to Section 16. Form 4 or

Form 5 obligations may continue.

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(b).

(City)

(State)

(Zin)

See Instruction

1. Name and Address of Reporting Person * 5. Relationship of Reporting Person(s) to 2. Issuer Name and Ticker or Trading Johnson Robert Joseph Issuer Symbol A123 SYSTEMS, INC. [AONE] (Check all applicable) (First) (Middle) (Last) 3. Date of Earliest Transaction (Month/Day/Year) Director 10% Owner X_ Officer (give title _ Other (specify C/O A123 SYSTEMS, INC., 200 08/20/2012 below) **WEST STREET** VP and GM, Energy Sol'ns Group (Street) 4. If Amendment, Date Original 6. Individual or Joint/Group Filing(Check Filed(Month/Day/Year) Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting WALTHAM, MA 02451 Person

| (City) | (State) | Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned | | | | | | | |
|-----------------|---------------------|--|--------------|------------------------|------------------|--------------|--------------|--|--|
| 1.Title of | 2. Transaction Date | 2A. Deemed | 3. | 4. Securities Acquired | 5. Amount of | 6. Ownership | 7. Nature of | | |
| Security | (Month/Day/Year) | Execution Date, if | Transactio | on(A) or Disposed of | Securities | Form: Direct | Indirect | | |
| (Instr. 3) | | any | Code | (D) | Beneficially | (D) or | Beneficial | | |
| | | (Month/Day/Year) | (Instr. 8) | (Instr. 3, 4 and 5) | Owned | Indirect (I) | Ownership | | |
| | | | | | Following | (Instr. 4) | (Instr. 4) | | |
| | | | | (A) | Reported | | | | |
| | | | | (A) or | Transaction(s) | | | | |
| | | | Code V | Amount (D) Price | (Instr. 3 and 4) | | | | |
| Common Stock | 08/20/2012 | | S <u>(1)</u> | 2,798 D \$ 0.46 | 398,807 (2) | D | | | |

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

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 number.

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 | 2. Conversion | 3. Transaction Date (Month/Day/Year) | | 4. Transactio | 5. orNumber | 6. Date Exerc Expiration D | | 7. Title at Amount of | | 8. Price of Derivative | 9. Nu Deriv |
|------------------------|---|--------------------------------------|------------------|------------------|---|-------------------------------|--------------------|--|-------------------------|------------------------|---|
| Security (Instr. 3) | or Exercise Price of Derivative Security | (monda, Day, Teal) | (Month/Day/Year) | Code (Instr. 8) | of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5) | (Month/Day/ | | Underlyin Securities (Instr. 3 a | ng s | Security (Instr. 5) | Secur Bene Owne Follo Repo Trans (Instr |
| | | | | Code V | (A) (D) | Date Exercisable | Expiration Date | or Title Nu of | nount umber uares | | |

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

Johnson Robert Joseph C/O A123 SYSTEMS, INC. 200 WEST STREET WALTHAM, MA 02451

VP and GM, Energy Sol'ns Group

Signatures

/s/ Eric J. Pyenson, Attorney-in-Fact for Robert Joseph Johnson

08/21/2012

**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 sales reported in this Form 4 were effected pursuant to a Rule 10b5-1 trading plan.
- (2) Includes 398,807 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.

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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