KIANI JOE E Form 4 January 13, 2009

FORM 4

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

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)

(Last)

1. Name and Address of Reporting Person * KIANI JOE E

2. Issuer Name and Ticker or Trading Symbol

MASIMO CORP [MASI]

(Middle) 3. Date of Earliest Transaction

(Month/Day/Year) 01/11/2009

C/O MASIMO CORPORATION, 40 **PARKER**

(First)

(Street) 4. If Amendment, Date Original

Filed(Month/Day/Year)

IRVINE, CA 92618 (City) (State) (Zip)

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

Person

5. Amount of

Securities

Beneficially

Issuer

below)

_X__ Director

Applicable Line)

X_ Officer (give title

1. Title of 2. Transaction Date 2A. Deemed 3. Security (Month/Day/Year) Execution Date, if (Instr. 3)

Code (Month/Day/Year) (Instr. 8)

TransactionAcquired (A) or Disposed of (D) (Instr. 3, 4 and 5)

4. Securities

Owned Following Reported (A)

Transaction(s) (Instr. 3 and 4) Code V Amount (D) Price

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)

1. Title of 3. Transaction Date 3A. Deemed 4. 5. Number of 6. Date Exercisable and 7. Title and Amou Derivative Conversion (Month/Day/Year) Execution Date, if TransactionDerivative **Expiration Date** Underlying Securi Security or Exercise any Code Securities (Month/Day/Year) (Instr. 3 and 4)

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January 31,

2005

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Number:

Expires:

response...

5. Relationship of Reporting Person(s) to

(Check all applicable)

CEO and Chairman of the Board

6. Ownership

Form: Direct

(D) or Indirect Beneficial

6. Individual or Joint/Group Filing(Check

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

(I)

(Instr. 4)

below)

10% Owner

Other (specify

7. Nature of

Ownership

(Instr. 4)

Indirect

Estimated average

burden hours per

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| (Instr. 3) | Price of Derivative Security | (Month/Day/Year) | (Instr. 8) | Acquired Disposed (Instr. 3, 45) | of (D) | | | |
|---------------|------------------------------------|------------------|------------|----------------------------------|--------|---------------------|--------------------|--------|
| | | | Code V | (A) | (D) | Date Exercisable | Expiration Date | Title |
| Non-qualified | | | | | | | | Common |

Reporting Owners

\$ 23.98

Reporting Owner Name / Address

Director 10% Owner Officer Other

A

KIANI JOE E C/O MASIMO CORPORATION, 40 PARKER

X CEO and Chairman of the Board

300,000

(1)

01/11/2019

Ame Nun Shar

300

Common

Stock

IRVINE, CA 92618

Signatures

Stock Option

(right to buy)

/s/ Mark P. de Raad - 01/13/2009 Attorney-in-Fact

**Signature of Reporting Person Date

Explanation of Responses:

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

01/11/2009

- ** Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).
- (1) This option was granted on January 11, 2009 and is exercisable as the option vests. This option vests over a five-year period, with 20% of the shares subject to the option vesting on each anniversary of the grant date.

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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