Al-Ali Ammar Form 4 February 18, 2010

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

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

Form 5 obligations may continue. See Instruction

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

1(b).

(Print or Type Responses)

IRVINE, CA 92618

1. Name and Address of Reporting Person *

Al-Ali Ammar

2. Issuer Name and Ticker or Trading

Symbol

MASIMO CORP [MASI]

(First) (Middle) (Last)

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

02/11/2010

C/O MASIMO CORPORATION, 40 PARKER

(Street)

4. If Amendment, Date Original

3.

Filed(Month/Day/Year)

(City) (State) (Zip)

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

Issuer

below)

Person

Director

Applicable Line)

Officer (give title

1. Title of Security (Instr. 3)

2. Transaction Date 2A. Deemed (Month/Day/Year)

Execution Date, if (Month/Day/Year)

TransactionAcquired (A) or Code Disposed of (D) (Instr. 8)

(Instr. 3, 4 and 5)

(A)

4. Securities

Code V Amount (D) Price

Securities Beneficially Owned Following Reported

5. Amount of

(I) (Instr. 4)

6. Ownership

Form: Direct

Indirect (D) or Indirect Beneficial Ownership (Instr. 4)

7. Nature of

10% Owner _X_ Other (specify

OMB APPROVAL

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January 31,

2005

0.5

OMB

Number:

Expires:

response...

5. Relationship of Reporting Person(s) to

(Check all applicable)

Chief Engineer

6. Individual or Joint/Group Filing(Check

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

below)

Estimated average

burden hours per

Transaction(s) (Instr. 3 and 4)

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)

1. Title of Derivative Security

Conversion or Exercise

3. Transaction Date 3A. Deemed

(Month/Day/Year) Execution Date, if any

4. 5. Number of Transaction Derivative Code Securities

6. Date Exercisable and **Expiration Date** (Month/Day/Year)

7. Title and Amoun Underlying Securiti (Instr. 3 and 4)

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(Instr. 3) Price of (Month/Day/Year) (Instr. 8) Acquired (A) Derivative or Disposed of Security (D) (Instr. 3, 4, and 5)

> Code V (A) (D) Date Expiration Title Amou Exercisable Date or Numb

> > of Sh

Non-qualified Common stock option \$ 27.25 02/11/2010 A 15,000 (1) 02/11/2020 15,0 Stock (right to buy)

Reporting Owners

Relationships Reporting Owner Name / Address Director 10% Owner Officer Other

Al-Ali Ammar Chief C/O MASIMO CORPORATION, 40 PARKER Engineer IRVINE, CA 92618

Signatures

/s/Mark P. de Raad, 02/18/2010 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).
- Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).
- This option was granted on February 11, 2010 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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