Allan Anthony Form 4 May 17, 2010

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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

OMB APPROVAL

OMB 3235-0287 Number:

January 31, Expires: 2005

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response... 0.5

Form 4 or Form 5 obligations may continue. See Instruction

Check this box

if no longer

subject to

Section 16.

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)

1. Name and Address of Reporting Person * Allan Anthony

2. Issuer Name and Ticker or Trading

5. Relationship of Reporting Person(s) to Issuer

Symbol MASIMO CORP [MASI]

(First) (Last)

(Middle) 3. Date of Earliest Transaction

(Month/Day/Year)

Director 10% Owner X_ Officer (give title

(Check all applicable)

C/O MASIMO CORPORATION, 40

05/17/2010

below)

Other (specify

(Street)

below) Chief Operating Officer

PARKER

4. If Amendment, Date Original

Applicable Line) _X_ Form filed by One Reporting Person

6. Individual or Joint/Group Filing(Check

Filed(Month/Day/Year)

Form filed by More than One Reporting

(Instr. 4)

Person

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

IRVINE, CA 92618

1. Title of

Security

(Instr. 3)

(City) (State) (Zip)

(Month/Day/Year)

2. Transaction Date 2A. Deemed

3. 4. Securities Execution Date, if TransactionAcquired (A) or

Disposed of (D)

(Instr. 3, 4 and 5)

5. Amount of Securities Beneficially

6. Ownership 7. Nature of Form: Direct Indirect (D) or Indirect Beneficial Ownership (I)

(Instr. 4)

(A)

(Instr. 8)

Code

Following Reported Transaction(s)

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

Owned

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

(Month/Day/Year)

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 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 Transaction Derivative **Expiration Date** Underlying Securi Security or Exercise any Code Securities (Month/Day/Year) (Instr. 3 and 4)

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(Instr. 3) Price of (Month/Day/Year) (Instr. 8) Acquired (A) or Derivative Disposed of (D) Security (Instr. 3, 4, and 5) Code V Expiration Title (A) (D) Date Exercisable Date

Non-qualified Common stock option \$ 23.97 05/17/2010 150,000 (1) 05/17/2020 150 A Stock

(right to buy)

Reporting Owners

Relationships Reporting Owner Name / Address

> Director 10% Owner Officer Other

Am

Nun Shar

Allan Anthony

C/O MASIMO CORPORATION, 40 PARKER **Chief Operating Officer**

IRVINE, CA 92618

Signatures

/s/ Mark P. de Raad, 05/17/2010 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 May 17, 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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