Lee Yongsam Form 4 February 24, 2011

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

Estimated average burden hours per

response... 0.5

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

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)

1. Name and Address of Reporting Person *

Lee Yongsam

2. Issuer Name and Ticker or Trading

Symbol

MASIMO CORP [MASI] 3. Date of Earliest Transaction

(Last) (First) (Middle)

> (Month/Day/Year) 02/22/2011

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

(Street)

4. If Amendment, Date Original

Filed(Month/Day/Year)

5. Relationship of Reporting Person(s) to

Issuer

(Check all applicable)

Director 10% Owner

X_ Officer (give title Other (specify below)

EVP, CIO, Regulatory Affairs

6. Individual or Joint/Group Filing(Check Applicable Line)

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

Person

IRVINE, CA 92618

1. Title of

Security

(Instr. 3)

(City) (State)

(Month/Day/Year)

(Zip) 2. Transaction Date 2A. Deemed

Execution Date, if

(Month/Day/Year)

3. 4. Securities TransactionAcquired (A) or Code

Disposed of (D) (Instr. 3, 4 and 5) (Instr. 8)

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 5. Amount of Securities Beneficially Owned Following

6. Ownership 7. Nature of Form: Direct Indirect (D) or Indirect Beneficial Ownership (T) (Instr. 4) (Instr. 4)

Reported Transaction(s)

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

(A)

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

> (D) Date Expiration Title Amou Exercisable Date or

Numb

of Sh

Non-qualified

Common **Stock Option** \$ 30.06 02/22/2011 A 30,000 (1) 02/22/2021 30,0 Stock (right to buy)

Code V

(A)

Reporting Owners

Relationships Reporting Owner Name / Address

> Director 10% Owner Officer Other

Lee Yongsam

C/O MASIMO CORPORATION, 40 PARKER **IRVINE, CA 92618**

EVP, CIO, Regulatory Affairs

Signatures

/s/ Mark P. de Raad -02/24/2011 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 22, 2011 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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