

Lee Yongsam
Form 4
December 31, 2012

FORM 4

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

OMB APPROVAL

OMB Number: 3235-0287
Expires: January 31, 2015
Estimated average burden hours per response... 0.5

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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)

1. Name and Address of Reporting Person *
Lee Yongsam

2. Issuer Name and Ticker or Trading Symbol
MASIMO CORP [MASI]

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)
C/O MASIMO CORPORATION, 40 PARKER

3. Date of Earliest Transaction (Month/Day/Year)
12/27/2012

____ Director
 Officer (give title below) _____ Other (specify below)
EVP, CIO, Regulatory Affairs

(Street)
IRVINE, CA 92618

4. If Amendment, Date Original Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check Applicable Line)
 Form filed by One Reporting Person
 Form filed by More than One Reporting Person

(City) (State) (Zip)

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

| 1. Title of Security (Instr. 3) | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if any (Month/Day/Year) | 3. Transaction Code (Instr. 8) | 4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) | 5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Indirect Beneficial Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|---|
| | | | Code | V Amount (A) or (D) Price | | | |
| Common Stock | 12/27/2012 | | S ⁽¹⁾ | 46,000 D \$ 20.1898 | 24,000 | D | |
| Common Stock | 12/28/2012 | | M | 6,540 A \$ 2.75 | 30,540 | D | |
| Common Stock | 12/31/2012 | | M | 38,460 A \$ 2.75 | 69,000 | D | |

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

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number.

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned
(e.g., puts, calls, warrants, options, convertible securities)

| 1. Title of Derivative Security (Instr. 3) | 2. Conversion or Exercise Price of Derivative Security | 3. Transaction Date (Month/Day/Year) | 3A. Deemed Execution Date, if any (Month/Day/Year) | 4. Transaction Code (Instr. 8) | 5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5) | 6. Date Exercisable and Expiration Date (Month/Day/Year) | 7. Title and Amount of Underlying Securities (Instr. 3 and 4) | Amount or Number of Shares |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|----------------------------|
| | | | | Code | V (A) (D) | Date Exercisable Expiration Date | Title | |
| Incentive Stock Option (Right to Buy) | \$ 2.75 | 12/28/2012 | | M | 6,540 | 01/23/2008 01/23/2013 | Common Stock | 6,540 |
| Incentive Stock Option (Right to Buy) | \$ 2.75 | 12/31/2012 | | M | 13,080 | 01/23/2008 01/23/2013 | Common Stock | 13,080 |
| Incentive Stock Option (Right to Buy) | \$ 2.75 | 12/31/2012 | | M | 25,380 | 07/14/2008 07/14/2013 | Common Stock | 25,380 |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|--|---------------|-----------|------------------------------|-------|
| | 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,
Attorney-In-Fact

12/31/2012

**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 46,000 shares disposed of have been sold pursuant to a Rule 10b5-1 Sales Plan dated December 12, 2012, which is intended to comply with Rule 10b5-1 promulgated under the Securities Exchange Act of 1934, as amended.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure.

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