KIANI JOE E Form 4 October 28, 2011

FORM 4

OMB APPROVAL

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

OMB Number: 3235-0287

Check this box if no longer subject to Section 16.

Expires: January 31, 2005

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

Estimated average burden hours per response... 0.5

Section 16.
Form 4 or
Form 5
obligations
may continue.

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

See Instruction 30(h) of the Investment Company Act of 1940

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person ** KIANI JOE E			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)	3. Date of Earliest Transaction				
C/O MASIMO CORPORATION, 40 PARKER			(Month/Day/Year) 10/28/2011	X Director 10% Owner X Officer (give title Other (specify below) CEO and Chairman of the Board			
(Street) IRVINE, CA 92618			4. If Amendment, Date Original	6. Individual or Joint/Group Filing(Check			
			Filed(Month/Day/Year)	Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting Person			
(C:t)	(Stata)	(Zin)					

(City)	(State)	(Zip) Tab	ole I - Non-	-Derivative Securities Acc	uired, Disposed of,	or Beneficial	ly Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transactic Code (Instr. 8)	4. Securities Acquired (A or Disposed of (D) (Instr. 3, 4 and 5) (A) or Amount (D) Price	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)
Common Stock	10/28/2011		P	64,596 A \$\\ 20.233	7 4,177,096	I	See Note
Common Stock					9,914	I	See Note
Common Stock					798,241	D	
Common Stock					9,000	I	See Note

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

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SEC 1474 (9-02)

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. Transact Code (Instr. 8)	5. onNumber of Derivativ Securities Acquired		ate	Amou Under Secur	le and ant of rlying rities . 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Nu Deriv Secur Bene Own Follo
	·				(A) or Disposed of (D) (Instr. 3, 4, and 5)						Repo Trans (Instr
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares		

Reporting Owners

Relationships Reporting Owner Name / Address

> Director 10% Owner Officer Other

KIANI JOE E

CEO and Chairman of the Board C/O MASIMO CORPORATION, 40 PARKER X

IRVINE, CA 92618

Signatures

/s/Mark P. de Raad, 10/28/2011 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).
- (1) Shares held in 3 trusts for which Mr. Kiani is the sole trustee.
- Shares acquired under the Masimo Retirement Savings Plan. The information in this report is based on a plan statement dated as of **(2)** October 28, 2011.
- (3) Shares held by immediate family member for which Mr. Kiani exercises voting and investment control.

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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