February 08, 2013 FORM 5								OMB AF	PROVAL	
UNITED STATES SECUL Check this box if Wa			RITIES AND EXCHANGE COMMISSION shington, D.C. 20549				OMMISSION	OMB Number:	3235-036 January 31	
5 obligations O' may continue. See Instruction			TEMENT OF CHANGES IN BENEFICIAL WNERSHIP OF SECURITIES ection 16(a) of the Securities Exchange Act of 1934,					Expires: 200 Estimated average burden hours per response 1		
1(b). Form 3 H Reported Form 4 Transacti Reported	oldings Section 17(a		Itility Holdin	ng Comp	any A	Act of 1	935 or Sectior	1		
1. Name and Address of Reporting Person <u>*</u> KIANI JOE E		Symbol	2. Issuer Name and Ticker or Trading Symbol MASIMO CORP [MASI]				5. Relationship of Reporting Person(s) to Issuer			
(Last)	(First) (N	(Month/I				(Checl _X_ Director _X_ Officer (give	eck all applicable) 10% Owner ive title Other (specify			
C/O MASII PARKER	MO CORPORAT					b	cEO and Cl	below) hairman of the	Board	
	(Street)		endment, Date onth/Day/Year)	Original		6	5. Individual or Jo	int/Group Repo	orting	
RVINE,Â	CAÂ 92618									
						-	X_ Form Filed by C Form Filed by M Person			
(City)	(State)	(Zip) Tab	ole I - Non-Der	ivative Se	curiti	es Acqui	ired, Disposed of	, or Beneficiall	y Owned	
I.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)		3. Transaction Code (Instr. 8)	4. Securities Acquire (A) or Disposed of (I (Instr. 3, 4 and 5)			Securities Beneficially Owned at end of Issuer's	Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Amount	(A) or (D)	Price	Fiscal Year (Instr. 3 and 4)	(Instr. 4)		
Common Stock	12/11/2012	Â	М	459	A	\$ 21.58	10,373	I	See Footnote	

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

KIANI IOF F

Persons who respond to the collection of information contained in this form are not 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)

(9-02)

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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)		ate	Secur	unt of rlying	8. Price of Derivative Security (Instr. 5)	9. of D So B O E I S F i (I
					(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares		

Reporting Owners

Reporting Owner Name / Address	Relationships						
The forming of the stand of the second	Director	10% Owner	Officer	Other			
KIANI JOE E C/O MASIMO CORPORATION, 40 PARKER IRVINE, CA 92618	X	Â	\hat{A} CEO and Chairman of the Board	Â			
Olamatura a							

Signatures

/s/ Mark P. de Raad, Attorney-In-Fact 02/08/2013

**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) On December 11, 2012, Mr. Kiani acquired 121 shares of Masimo Corporation common stock at \$21.58 per share under the Masimo Retirement Savings Plan. The information in this report is based on a plan statement dated December 29, 2012.

Note: File three copies of this Form, one of which must be manually signed. If space provided 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.