Rao Meera Form 4 April 13, 2010

FORM 4

OMB APPROVAL

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

OMB 3235-0287 Number:

Check this box if no longer subject to Section 16.

January 31, Expires: 2005

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

Estimated average burden hours per response... 0.5

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

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

1(b).

(Last)

(Print or Type Responses)

1. Name and Address of Reporting Person * Rao Meera

(First)

2. Issuer Name and Ticker or Trading

5. Relationship of Reporting Person(s) to

(Middle)

Symbol

(Check all applicable)

MONOLITHIC POWER SYSTEMS INC [MPWR]

(Month/Day/Year)

3. Date of Earliest Transaction

Director 10% Owner X_ Officer (give title Other (specify

6409 GUADALUPE MINES ROAD

04/13/2010

below)

VP of Finance, Corp Controller

(Street) 4. If Amendment, Date Original

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

Filed(Month/Day/Year)

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

Person

Issuer

SAN JOSE, CA 95120

(City)	(State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Bo						or Beneficiall	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)		sed of 4 and	` '	5. Amount of Securities Beneficially Owned Following Reported	6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code V	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)	(Instr. 4)	
Common Stock	04/13/2010		M(1)	3,000	A	\$ 13.53	33,000	D	
Common Stock	04/13/2010		S <u>(1)</u>	3,000	D	\$ 23.0449	30,000	D	

(2)

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

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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. Transactio Code (Instr. 8)	5. Number on Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)			7. Title and Amour Underlying Securit (Instr. 3 and 4)	
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amo or Num of Shar
Non-Qualified Stock Option (right to buy)	\$ 13.53	04/13/2010		M <u>(1)</u>	3,000	01/05/2010	01/05/2016	Common Stock	3,0

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

Rao Meera

6409 GUADALUPE MINES ROAD VP of Finance, Corp Controller

SAN JOSE, CA 95120

Signatures

By: Rick Neely For: 04/13/2010

**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) In accordance with the reporting person's 10b5-1 trading plan.

The price is the weighted average sale price for the transactions reported on this line. The prices for the transactions reported on this line (2) range from \$23.0125 to \$23.08. The reporting person undertakes to provide, upon request by the staff of the Securities and Exchange Commission, the issuer, or a security holder of the issuer, full information regarding the number of shares sold at each separate price.

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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