Rao Meera Form 4 March 29, 2010

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB Number:

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response...

if no longer subject to Section 16. Form 4 or Form 5

Check this box

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, obligations may continue.

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)

See Instruction

1. Name and Address of Reporting Person *

2. Issuer Name and Ticker or Trading Symbol

5. Relationship of Reporting Person(s) to

Issuer

6409 GUADALUPE MINES ROAD

(Street)

Rao Meera

MONOLITHIC POWER SYSTEMS INC [MPWR]

(Check all applicable)

(Last)

(First) (Middle) 3. Date of Earliest Transaction

Director 10% Owner _X__ Officer (give title _ Other (specify

(Month/Day/Year)

08/17/2009

below)

VP of Finance, Corp Controller

4. If Amendment, Date Original

Filed(Month/Day/Year)

Applicable Line) _X_ Form filed by One Reporting Person

6. Individual or Joint/Group Filing(Check

Form filed by More than One Reporting

Person

SAN JOSE, CA 95120

(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. Transactic Code (Instr. 8)	4. Securi or Dispo (Instr. 3,	sed of 4 and (A) or	` ′	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)	
Common Stock	08/17/2009		J(1)	1,346	A	\$ 11.1435	1,346	D		
Common Stock	02/16/2010		<u>J(1)</u>	814	A	\$ 18.411	2,160	D		
Common Stock	03/29/2010		S(2)	2,160	D	\$ 22.1805	30,000	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. Tit	le of	2.	3. Transaction Date	3A. Deemed	4.	5.	6. Date Exerc	cisable and	7. Title	e and	8. Price of	9. Nu
Deriv	ative	Conversion	(Month/Day/Year)	r) Execution Date, if Transac		nsactionNumber Expiration Date		ate	Amou	nt of	Derivative	Deriv
Secur	ity	or Exercise		any	Code	of	(Month/Day/	Year)	Under	lying	Security	Secui
(Instr	. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Derivative	e		Securi	ties	(Instr. 5)	Bene
		Derivative				Securities			(Instr.	3 and 4)		Owne
		Security				Acquired						Follo
		•				(A) or						Repo
						Disposed						Trans
						of (D)						(Instr
						(Instr. 3,						
						4, and 5)						
										Amount		
										Amount		
						Date	Expiration		Or			
						Exercisable	Exercisable Date	Title Number				
				C-J- V	(A) (D)				of			
					Code V	(A) (D)				Shares		

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

Rao Meera

6409 GUADALUPE MINES ROAD

VP of Finance, Corp Controller

Signatures

SAN JOSE, CA 95120

Meera Rao 03/29/2010

**Signature of Person

**Beporting Person

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) Acquired through the Company's qualified ESPP program.
- (2) In accordance with the reporting person's 10b5-1 trading plan.

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.

Reporting Owners 2