Rao Meera Form 3 February 09, 2010

FORM 3

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

OMB APPROVAL

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INITIAL STATEMENT OF 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 2. Date of Event Requiring 3. Issuer Name and Ticker or Trading Symbol Person * Statement MONOLITHIC POWER SYSTEMS INC [MPWR] Rao Meera (Month/Day/Year) 02/09/2010 (Last) (First) (Middle) 4. Relationship of Reporting 5. If Amendment, Date Original Person(s) to Issuer Filed(Month/Day/Year) 6409 GUADALUPE MINES (Check all applicable) **ROAD** (Street) 6. Individual or Joint/Group 10% Owner Director _X__ Officer Other Filing(Check Applicable Line) (give title below) (specify below) _X_ Form filed by One Reporting VP of Finance, Corp Controller Person SAN JOSE, CAÂ 95120 Form filed by More than One Reporting Person (City) (State) (Zip) Table I - Non-Derivative Securities Beneficially Owned

1.Title of Security (Instr. 4)

2. Amount of Securities Beneficially Owned (Instr. 4)

Ownership
Form:
Direct (D)
or Indirect

4. Nature of Indirect Beneficial

Ownership (Instr. 5)

or Indirect
(I)
(Instr. 5)

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

SEC 1473 (7-02)

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

1. Title of Derivative Security (Instr. 4)	2. Date Exercisable and Expiration Date (Month/Day/Year)		3. Title and Amount of Securities Underlying Derivative Security		4. Conversion or Exercise	5. Ownership Form of	6. Nature of Indirect Beneficial Ownership
			(Instr. 4)		Price of	Derivative	(Instr. 5)
	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	Derivative Security	Security: Direct (D) or Indirect (I)	

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(Instr. 5)

Non-Qualified Stock Option (right to buy) $01/05/2010\underline{^{(1)}} \quad 01/05/2016 \quad \frac{Common}{Stock} \quad 70,000 \quad \$ \ 13.53 \qquad D \qquad \hat{A}$

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, CAÂ 95120

Signatures

By: Rick Neely For: 02/09/2010 Meera Rao

**Signature of Reporting Person Date

Explanation of Responses:

* If the form is filed by more than one reporting person, see Instruction 5(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) A total of 70,000 shares were granted on 1/5/2009. Twenty five percent (25%) of the shares vested twelve (12) months after the grant date, and 1/48th of the shares vest monthly thereafter.

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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