FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL									
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	Check this box if no longer subject
П	to Section 16. Form 4 or Form 5
Ш	obligations may continue. See
	Instruction 1(b).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

Name and Address of Reporting Person* Rao Meera						2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]									all app	olicable)		Issuer Owner (specify
(Last) (First) (Middle) 6409 GUADALUPE MINES ROAD						3. Date of Earliest Transaction (Month/Day/Year) 08/02/2011									belo	w)	below	` '
(Street) SAN JOS (City)	()					4. If Amendment, Date of Original Filed (Month/Day/Year)									ridual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person			
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																		
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Ye					ear) E:	2A. Deemed Execution Date, if any (Month/Day/Year)			3. 4. Securitie Transaction Code (Instr. 8) 5.					4 and Secu		ficially d	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
									Code	v	Amount	(A) or (D)	Price	Rep Tra		rted saction(s) . 3 and 4)	(11301. 4)	(1130. 4)
Common Stock 08/02/20					1			S ⁽¹⁾		1,384	D	\$12.9	12.9532		35,768	D		
		Та	ble	II - Derivat (e.g., pı							osed of, c				vned			
1. Title of Derivative Security (Instr. 3)	Conversion or Exercise (Month/Day/Year) Price of Derivative Security Execution Date, if any (Month/Day/Year)		Code (I	5. Number of Derivative Securities (A) or Dispose of (D) (Instr. 3, and 5)			Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4) Amount or Number of Title Shares		8. Price of Derivative Security (Instr. 5)		9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		

Explanation of Responses:

1. Shares sold to pay tax obligations resulting from the vesting of restricted stock units.

By: Saria Tseng For: Meera Rao 08/02/2011

** Signature of Reporting Person Date

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

- * 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).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

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 Number.