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 to Section 16. Form 4 or Form 5 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													Owner
(Last) 79 GREA	st) (First) (Middle) GREAT OAKS BLVD				3. Date of Earliest Transaction (Month/Day/Year) 05/08/2014									X	Offic belov	,	Other (specify below)	
(Street) SAN JOS (City)			5119 (ip)	- [- [4. If Amendment, Date of Original Filed (Month/Day/Year)								r)	6. Indiv Line) X	vidual 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)			Date	2. Transaction Date (Month/Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Year)		T	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) of Disposed Of (D) (Instr. 3, 4			nd 5) Securities Beneficially Owned		rities ficially ed	6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership
						С	Code V		Amount	(A) or (D)	Price		Following Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)	(Instr. 4)		
Common	05/08/2	014	14				S ⁽¹⁾		1,267	D	\$36.4	1302	6	52,985	D			
Common	05/08/2	05/08/2014					S ⁽¹⁾		60	D	\$36.43		62,925		D			
Common Stock			05/09/2	05/09/2014					S ⁽²⁾		4,469	D	\$36.5491		58,456		D	
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)	ve Conversion or Exercise (Month/Day/Year) Price of Derivative Security Conversion of Execution Date, if any (Month/Day/Year)			C 8	ransact ode (In	ansaction de (Instr. Securit Acquir (A) or Disposo of (D) (Instr. and 5)		ative ities ired sed	Expir (Mon	ration th/Day	rcisable and Date //Year) Expiration Date	7. Title and Amount of Securities Underlying Derivative Security (Instr 3 and 4) Amount or Numbboof Title Shares		Seci (Ins	vative	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirec (I) (Instr. 4)	Beneficial Ownership

Explanation of Responses:

- 1. Shares sold to pay tax obligations resulting from the vesting of restricted stock units.
- 2. In accordance with the reporting person's 10b5-1 trading plan.
- 3. The price is the weighted average sale price for the transactions reported on this line. The prices for the transactions reported on this line range from \$36.49 to \$36.665. 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.

By: Saria Tseng For: Meera Rao 05/09/2014

** 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.