FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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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

1. Name and Ad Rao Meera	dress of Reporting	Person [*]	2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)				
			[MPWR]		Director	10% Owner		
(Last) 79 GREAT O	(First) AKS BLVD	(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 08/07/2013	X	Officer (give title below) CFO	Other (specify below)		
(Street) SAN JOSE CA 95119 (City) (State) (Zip)			4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person				
		Table I - Non-De	erivative Securities Acquired, Disposed of, or Benef	icially	Owned			

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)		A. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5) de (Instr.			5. Amount of Securities Beneficially Owned	Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership	
			Code	v	Amount	(A) or (D)	Price	Following Reported Transaction(s) (Instr. 3 and 4)	(Instr. 4)	(Instr. 4)
Common Stock	08/07/2013		S ⁽¹⁾		10,000	D	\$28.035(2)	75,182	D	
Common Stock	08/08/2013		Α		130(3)	Α	\$0.0	75,312	D	
Common Stock	08/08/2013		S ⁽⁴⁾		69	D	\$28.28	75,243	D	
Common Stock	08/08/2013		S ⁽⁴⁾		1,474	D	\$28.2831	73,769	D	

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

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1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	 3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transact Code (In 8)		of Deriv Secur Acqu (A) or Dispo of (D)	erivative (Month/Day/Year) scurities gujured) or sposed (D) str. 3, 4		ate	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		of derivative Derivative Securities Security Beneficially (Instr. 5) Owned Following Reported	Securities Beneficially Owned Following Reported Transaction(s)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership
			Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				

Explanation of Responses:

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

2. 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 \$27.54 to \$28.53. 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. 3. Equitable stock dividend adjustment approved by the Board of Director as a result of dividend Payment to shareholders on December 28, 2012. Stock dividends will release according to the same vesting

schedule as the original grants.

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

By: Saria	Tseng	For:	Meera
Rao	_		

08/09/2013

** 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.