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

1. Name ar Xiao D (Last) 79 GREA	MO [MP	2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR] 3. Date of Earliest Transaction (Month/Day/Year) 06/16/2014										all app Direct Offict below	plicable) ctor er (give title		Person(s) to Issuer 10% Owner Other (specify below) ia Operations						
(Street) SAN JOS (City)			5119 Zip)		4. If A	4. If Amendment, Date of Original Filed (Month/Day/									Individual or Joint/Group Filing (Check Applicatine) X 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. Transac Date (Month/Da					y/Year)	Execu	Deemed ution Date, y nth/Day/Year)					ities Acquired (d Of (D) (Instr. :			3, 4 S		5. Amount of Securities Beneficially Owner		wnership m: Direct or rect (I)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
								Code	v	Amount		(A) or (D)		•	Following Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)		(msu. 4)		
Common Stock 06/16/2					014	014			S ⁽¹⁾		72		D	\$41.78		5,957			I	by Spouse	
Common Stock																80,022			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 Date Execution Date, or Exercise (Month/Day/Year) if any			ransaction code (Instr.)		vative rities ired rosed) 3, 4	6. Date E Expiration (Month/D	n Da	ear)	7. Title and Amount of Securities Underlying Derivative Security (Inst. 3 and 4) Amount or Numb of Share		ount	Seci	rice vative urity tr. 5)	9. Number of derivative e Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)		IO. Dwnership Form: Direct (D) or Indirect I) (Instr.	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: Deming Xiao 06/18/2014

** 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.