## FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL
OMB Number: 3235-0287
Estimated average burden

hours per response:

0.5

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 Address of Reporting Person <sup>*</sup> Xiao Deming						2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC									5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner					
(Last) (First) (Middle) 79 GREAT OAKS BLVD					[ MPWR ] 3. Date of Earliest Transaction (Month/Day/Year) 12/14/2013									- ,	Contraction of the formation of the form	(give title	Asia (	Other (s below) Operations	specify	
(Street) SAN JOSE CA 95119			5119		4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)								Line	Individual or Joint/Group Filing (Check Applicable e) X Form filed by One Reporting Person Form filed by More than One Reporting					
(City)	(Sta	ate) (Z	Zip)												Person				3	
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																				
1. Title of Security (Instr. 3) 2. Transacti Date (Month/Day						Execution Date,			3.     4. Securities Acquired       Transaction     Disposed Of (D) (Instr.       Code (Instr.     and 5)					Securiti Benefici Owned	es For ially (D) Ind		n: Direct r ect (I)	7. Nature of Indirect Beneficial Ownership		
								Code	v	Amount	(A) or (D) Pri		Price				r. 4)	(Instr. 4)		
	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)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)		4. Transaction Code (Instr. 8)		of		6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Secur (Instr. 3 and 4)			8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	lly I	Ownership Form: Direct (D) or Indirec (I) (Instr. 4)	Beneficial Ownership	
					Code	v	(A)	(D)	Date Exercisab		xpiration ate	Title	or Ni of	umber						
Performance	(1)	12/14/2013			А		43,200		(1)		(1)	Commo	<sup>n</sup> 2	16,000	\$0.0	43,200	)	D		

## Explanation of Responses:

1. Each performance unit will vest as follows: one share of MPWR common stock will be credited for each performance unit if the price of MPWR common stock achieves a 20-day average closing price of \$40.00 per share from January 1, 2014 through December 31, 2018 (the "Performance Period"), and up to four additional shares will be credited for each performance unit if the 20-day average closing price reaches \$43.00, \$47.00, \$52.00 and \$56.00 (that is, one share per price level) during the Performance Period. Credited performance units are then subject to an additional, quarterly, five-year time-based vesting schedule beginning January 1, 2019, subject to acceleration under certain circumstances.

By: Saria Tseng For: Deming	12/17/2013
Xiao	12/1//2013
** Cignoture of Departing Demon	Data

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.