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 Address of Reporting Person [*] 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)				
			[MPWR]		Director	10% Owner			
(Last) 79 GREAT OA	(First) AKS BLVD	(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 05/07/2015	X	Officer (give title below) Pres. of MPS Asia	Other (specify below) Operations			
(Street)			4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Individual or Joint/Group Filing (Check Applicable Line)					
SAN JOSE	CA	95119			Form filed by One Reporting Person				
(City)	(State)	(Zip)	-		Form filed by More th Person	an One Reporting			

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)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned	6. Ownership 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	05/07/2015		S		2,000	D	\$51.966 ⁽¹⁾	254,483	D	
Common Stock	05/07/2015		S		2,779	D	\$51.7857 ⁽²⁾	251,704	D	
Common Stock	05/08/2015		S ⁽³⁾		1,852	D	\$51.79	249,852	D	
Common Stock	05/08/2015		S ⁽³⁾		88	D	\$51.79	249,764	D	
Common Stock	05/08/2015		S		1,744	D	\$52.5201	248,020	D	
Common Stock	05/11/2015		s		1,757	D	\$52.408	246,263	D	
Common Stock								1,667	I	by Spouse

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	3. Transaction Date (Month/Day/Year)	Execution Date,	Code (Instr.				6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		of	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	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. 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 \$51.90 to \$52.07. 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 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 \$51.76 to \$51.79. 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. Shares sold to pay tax obligations resulting from the vesting of restricted stock units.

<u>By: Sa</u> Xiao	aria T	seng	or:	Deming	05/11/2015
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** 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.