

MONOLITHIC POWER SYSTEMS INC  
 Form 4  
 February 14, 2014

**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 OF SECURITIES**

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting Person \*  
 Xiao Deming

2. Issuer Name and Ticker or Trading Symbol  
 MONOLITHIC POWER SYSTEMS INC [MPWR]

5. Relationship of Reporting Person(s) to Issuer  
 (Check all applicable)

(Last) (First) (Middle)  
 79 GREAT OAKS BLVD  
 (Street)

3. Date of Earliest Transaction (Month/Day/Year)  
 02/11/2014

\_\_\_\_ Director \_\_\_\_\_ 10% Owner  
 Officer (give title below) \_\_\_\_\_ Other (specify below)  
 Pres. of MPS Asia Operations

SAN JOSE, CA 95119  
 (City) (State) (Zip)

4. If Amendment, Date Original Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check Applicable Line)  
 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. 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 Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
				(A) or (D)	Price			
				Code	V	Amount		
Common Stock	02/11/2014		M		1,291	A	\$ 15.03 95,140	D
Common Stock	02/11/2014		S		1,291	D	\$ 34.4629 93,849	D
Common Stock	02/11/2014		M		1,103	A	\$ 14.89 94,952	D
Common Stock	02/11/2014		S		1,103	D	\$ 34.4629 93,849	D
	02/11/2014		M		2,127	A	\$ 10.41 95,976	D

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Common Stock								
Common Stock	02/11/2014	S	2,127	D	\$ 34.4629 <u>(1)</u>	93,849	D	
Common Stock	02/11/2014	M	80	A	\$ 10.41	93,929	D	
Common Stock	02/11/2014	S	80	D	\$ 34.4629 <u>(1)</u>	93,849	D	
Common Stock	02/13/2014	M	1,882	A	\$ 17.92	95,731	D	
Common Stock	02/13/2014	S	1,882	D	\$ 34.705 <u>(2)</u>	93,849	D	
Common Stock	02/13/2014	M	2,944	A	\$ 15.03	96,793	D	
Common Stock	02/13/2014	S	2,944	D	\$ 34.705 <u>(2)</u>	93,849	D	
Common Stock	02/13/2014	S	8,560	D	\$ 34.9003 <u>(3)</u>	85,289	D	
Common Stock						7,655	I	by Spouse

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

**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 control number.**

SEC 1474  
(9-02)

**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)	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)	7. Title and Amount of Underlying Security (Instr. 3 and 4)	8. Date Exercisable	9. Expiration Date	10. Title	11. Amount or Number of Shares
					Code V (A) (D)						

Non-Qualified Stock Option (right to buy)	\$ 10.41	02/11/2014	M	2,127	12/28/2012	12/07/2014	Common Stock	2,1
Non-Qualified Stock Option (right to buy)	\$ 10.41	02/11/2014	M	80	12/28/2012	12/07/2014	Common Stock	80
Non-Qualified Stock Option (right to buy)	\$ 14.89	02/11/2014	M	1,103	12/28/2012	02/08/2015	Common Stock	1,1
Non-Qualified Stock Option (right to buy)	\$ 15.03	02/11/2014	M	1,291	12/28/2012	10/28/2015	Common Stock	1,2
Non-Qualified Stock Option (right to buy)	\$ 15.03	02/13/2014	M	2,944	12/28/2012	10/28/2015	Common Stock	2,9
Non-Qualified Stock Option (right to buy)	\$ 17.92	02/13/2014	M	1,882	12/28/2012	08/03/2014	Common Stock	1,8

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Xiao Deming 79 GREAT OAKS BLVD SAN JOSE, CA 95119			Pres. of MPS Asia Operations	

## Signatures

By: Saria Tseng For: 02/13/2014  
Deming Xiao

\_\_Signature of Reporting Person Date

## Explanation of Responses:

\* 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).

The price is the weighted average sale price for the transactions reported on this line. The prices for the transactions reported on this line  
(1) range from \$34.405 to \$34.47. 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.

The price is the weighted average sale price for the transactions reported on this line. The prices for the transactions reported on this line  
(2) range from \$34.70 to \$34.74. 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.

The price is the weighted average sale price for the transactions reported on this line. The prices for the transactions reported on this line  
(3) range from \$34.77 to \$34.995. 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.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.