

Xiao Deming
Form 4
February 22, 2013

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

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

OMB APPROVAL

OMB
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(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)

SAN JOSE, CA 95119

(City) (State) (Zip)

3. Date of Earliest Transaction
(Month/Day/Year)
02/05/2013

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

____ Director ____ 10% Owner
____X____ Officer (give title ____ Other (specify
below) below)

Pres. of MPS Asia Operations

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-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)
Common Stock	02/15/2013		J ⁽¹⁾	1,188 A	\$ 17.884 158,499	D	
Common Stock	02/20/2013		M	100 A	\$ 10.91 158,599	D	
Common Stock	02/20/2013		S	100 D	\$ 25.52 158,499	D	
Common Stock	02/20/2013		S	3,107 D	\$ 25.5413 155,392	D	
Common Stock	02/05/2013		A ⁽³⁾	3,000 ⁽⁴⁾ A	\$ 0 12,480	I	by Spouse

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Common Stock	02/15/2013	J ⁽¹⁾	305	A	\$ 17.884	12,822	I	by Spouse
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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 Securities (Instr. 3 and 4)		8. Is the Derivative Security (Instr. 3)	
				Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Incentive Stock Option (right to buy)	\$ 10.91	02/20/2013		M		100		12/01/2005	12/07/2014	Common Stock	100

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: Meera Rao For: 02/22/2013
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).

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- (1) Acquired through the Company's qualified ESPP program.

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 \$25.52 to \$25.5601. 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) This report has been filed late due to an inadvertent administrative error.

- (4) 1/16 of the Restricted Stock Units shall vest quarterly following the Vesting Commencement Date, provided that the Grantee continues to be a Service Provider from the Grant Date through each applicable vesting date.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure.

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