

MONOLITHIC POWER SYSTEMS INC  
 Form 4  
 August 12, 2008

**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)  
 6719 ELWOOD RD  
 (Street)

3. Date of Earliest Transaction (Month/Day/Year)  
 08/12/2008

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

SAN JOSE, CA 95120  
 (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 Ownership (Instr. 4)
			Code	V	Amount (A) or (D) Price		
Common Stock	08/12/2008		M		3,125 A \$ 5	75,373	D
Common Stock	08/12/2008		M		9,304 A \$ 10.91	84,677	D
Common Stock	08/12/2008		S		700 D \$ 28.27	83,977	D
Common Stock	08/12/2008		S		300 D \$ 28.23	83,677	D
Common Stock	08/12/2008		S		100 D \$ 23.22	83,577	D

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Common Stock	08/12/2008	S	1	D	\$ 28.19	83,576	D	
Common Stock	08/12/2008	S	300	D	\$ 28.18	83,276	D	
Common Stock	08/12/2008	S	100	D	\$ 28.17	83,176	D	
Common Stock	08/12/2008	S	501	D	\$ 28.16	82,675	D	
Common Stock	08/12/2008	S	166	D	\$ 28.13	82,509	D	
Common Stock	08/12/2008	S	501	D	\$ 28.11	82,008	D	
Common Stock	08/12/2008	S	9,760	D	\$ 28.1	72,248	D	
Common Stock						6,637	I	by Spouse

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

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(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. Amount or Number of Shares
Incentive Stock Option (right to buy)	\$ 5	08/12/2008		M	3,125	01/13/2005 01/28/2014	Common Stock	3,125
Incentive Stock Option	\$ 10.91	08/12/2008		M	9,304	12/01/2005 12/07/2014	Common Stock	9,304

(right to  
buy)

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Xiao Deming 6719 ELWOOD RD SAN JOSE, CA 95120			Pres. of MPS Asia Operations	

## Signatures

By: Adriana Chiocchi For: 08/12/2008  
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).

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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