### Edgar Filing: Xiao Deming - Form 4

Check this box if no longer subject to Section 16. SECURITIES NUMBERSETION DECLEVATION DEC									3235-0287 January 31, 2005 verage	
(Print or Type Responses)										
Xiao Deming Syml MO			2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]				5. Relationship of Reporting Person(s) to Issuer (Check all applicable)			
			e of Earliest Transaction h/Day/Year) h/2010				Director 10% Owner X Officer (give title Other (specify below) below) Pres. of MPS Asia Operations			
	nendment, Date Original onth/Day/Year)				6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting Person					
SAN JOSE, CA 95120 Form filed by More than One Reporting Person								oorting		
(City)	(State) (Zi	<sup>ip)</sup> Tab	le I - Non-I	Derivative	Secur	rities Acqu	uired, Disposed of,	or Beneficiall	y Owned	
1.Title of Security (Instr. 3)	a	A. Deemed Execution Date, if ny Month/Day/Year)	3. 4. Securities Acquired Transaction(A) or Disposed of (D) Code (Instr. 3, 4 and 5) (Instr. 8) (A) or Code V Amount (D) Price		d of (D) 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	04/14/2010		S <u>(1)</u>	8,505	D	\$ 24.5	97,669	D		
Common Stock	02/16/2010		J V	643 <u>(2)</u>	А	\$ 18.411	16,253	Ι	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.

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 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. Transacti Code (Instr. 8)	5. orNumber of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)		ate	Secur	int of rlying	8. Price of Derivative Security (Instr. 5)	9. Nu Deriv Secu Bene Owne Follo Repo Trans (Instr
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares		

# **Reporting Owners**

<b>Reporting Owner Name / Address</b>	Relationships						
	Director	10% Owner	Officer	Other			
Xiao Deming			Pres. of M	PS			
6409 GUADALUPE MINES ROAD			Asia				
SAN JOSE, CA 95120			Operations				
Cianaturaa							

## Signatures

By: Rick Neely For: Deming Xiao

04/15/2010

Date

### \*\*Signature of Reporting Person

**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).

(1) In accordance with the reporting person's 10b5-1 trading plan.

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

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.