Xiao Deming Form 4 March 18, 2013

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

2. Issuer Name and Ticker or Trading

OMB Number:

3235-0287

Expires:

5. Relationship of Reporting Person(s) to

155,392

D

January 31, 2005

0.5

Estimated average burden hours per

OMB APPROVAL

response...

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations

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

may continue. 30(h) of the Investment Company Act of 1940 See Instruction

1(b).

Common

Stock

(Print or Type Responses)

1. Name and Address of Reporting Person *

Xiao Deming			Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]					(Check all applicable)			
(Last) (First) (Middle) 79 GREAT OAKS BLVD			3. Date of Earliest Transaction (Month/Day/Year) 03/14/2013					Director 10% Owner Section Other (specify below) Pres. of MPS Asia Operations			
CANLOGE	4. If Amendment, Date Original Filed(Month/Day/Year)					6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting PersonForm filed by More than One Reporting					
SAN JOSE, CA 95119								Person			
(City) (State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned										y Owned	
1.Title of Security (Instr. 3)	2. Transaction Da (Month/Day/Year	r) Execution any	med in Date, if Day/Year)	3. Transactic Code (Instr. 8)	4. Securi n(A) or Di (Instr. 3,	ispose	d of (D)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		
Common Stock	03/14/2013			Code V $S_{\underline{(1)}}$	Amount 143	D D	\$ 24.56	12,679	I	by Spouse	
Common Stock	03/14/2013			A	17 (2)	A	\$ 0	12,696	I	by Spouse	
Common Stock	03/14/2013			S(3)	8	D	\$ 24.56	12,688	I	by Spouse	

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

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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	2.	3. Transaction Date	3A. Deemed	4.	5.	6. Date Exerci	isable and	7. Titl	le and	8. Price of	9.
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transactio	onNumber	Expiration Date		Amou	ınt of	Derivative	D
Security	or Exercise		any	Code	of	(Month/Day/Y	Year)	Under	rlying	Security	S
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Derivative	•		Secur	ities	(Instr. 5)	В
	Derivative				Securities			(Instr.	3 and 4)		0
	Security				Acquired						F
					(A) or						R
					Disposed						T
					of (D)						(I
					(Instr. 3,						
					4, and 5)						
									Amount		
									or		
						Date	Expiration	Title			
						Exercisable Date		of			
				Code V	(A) (D)				Shares		
				Couc v	(II)				Dilaics		

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

Xiao Deming

79 GREAT OAKS BLVD Pres. of MPS Asia Operations

SAN JOSE, CA 95119

Signatures

By: Saria Tseng For:
Deming Xiao

03/18/2013

**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).
- (1) Shares sold to pay tax obligations resulting from the vesting of restricted stock units.
- (2) Equitable stock dividend adjustment approved by the Board of Director as a result of dividend Payment to shareholders on December 28, 2012. Stock dividends will release according to the same vesting schedule as the original grants.
- (3) Shares sold to pay tax obligations resulting from the release of restricted stock units.

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.

Reporting Owners 2

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Follo Repo Trans (Instr