Xiao Deming Form 4 August 17, 2012

FORM 4

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

SECURITIES

Check this box STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

if no longer subject to Section 16.

Form 4 or Form 5 obligations

may continue. See Instruction

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(b).

(Last)

(City)

1. Name and Address of Reporting Person * Xiao Deming

(First) (Middle)

79 GREAT OAKS BLVD

(Street)

(State)

(Zip)

SAN JOSE, CA 95119

2. Issuer Name and Ticker or Trading

Symbol

MONOLITHIC POWER SYSTEMS INC [MPWR]

(Month/Day/Year) 08/16/2012

4. If Amendment, Date Original

3. Date of Earliest Transaction

Filed(Month/Day/Year)

OMB APPROVAL

OMB Number:

3235-0287 January 31,

Expires:

2005 Estimated average

response...

burden hours per 0.5

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

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. Transactic Code (Instr. 8)	4. Securitonor Dispos (Instr. 3,	ed of	` ′	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	08/15/2012		J V		A	\$ 14.9685	10,228	I	by Spouse
Common Stock	08/16/2012		M	4,688	A	\$ 16	14,916	I	by Spouse
Common Stock	08/16/2012		S	4,688	D	\$ 21.9	10,228	I	by Spouse
Common Stock	08/16/2012		M	10,312	A	\$ 16	20,540	I	by Spouse
Common Stock	08/16/2012		S	10,312	D	\$ 21.9	10,228	I	by Spouse

Common Stock 125,200

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

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SEC 1474

(9-02)

D

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)	orDeriv Secur Acqui	rities ired (A) sposed of . 3, 4,	6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amou Underlying Secur (Instr. 3 and 4)	
				Code V	(A)	(D)	Date Exercisable	Expiration Date	Title	Am or Nu of S
Incentive Stock Option (right to buy)	\$ 16	08/16/2012		M		4,688	01/17/2008	01/17/2016	Common Stock	4,
Non-Qualified Stock Option (right to buy)	\$ 16	08/16/2012		M		10,312	01/17/2008	01/17/2016	Common Stock	10

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: 08/17/2012 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).

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

Reporting Owners 2

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