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

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person* Xiao Deming (Last) (First) (Middle) 79 GREAT OAKS BLVD					2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR] 3. Date of Earliest Transaction (Month/Day/Year) 11/01/2012 4. If Amendment, Date of Original Filed (Month/Day/Year)								(Check	Pres. of MPS Asia Operations 6. Individual or Joint/Group Filing (Check Applicable			
(Street) SAN JOS	AN JOSE CA 95119												X	Form filed by One Reporting Person Form filed by More than One Reporting			
(City)	(Sta	ate) (Z	ľip)											Person			
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Ye				Year) i	Execution Date,			Transaction Dispos Code (Instr. 5)		4. Securitie Disposed (5)				5. Amount of Securities Beneficially Owned Following		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
								Code	v	Amount	(A) or (D)	Price		Repo Trans		(111341. 4)	(111341. 4)
Common Stock 11/01/201				12				S ⁽¹⁾		1,971	D	\$17.	3409	13	23,229	D	
Common Stock														1	0,228	I	by Spouse
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)		saction of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)			6. Date Expira	tion [Year) Expiration	7. Title and Amount of Securities Underlying Derivative Security (Instr 3 and 4) Amou or Numb of Title Share		of Deri Seci (Ins	Price f 9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)		Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)

Explanation of Responses:

1. Shares sold to pay tax obligations resulting from the vesting of restricted stock units.

By: Meera Rao For: Deming Xiao

** Signature of Reporting Person Date

11/05/2012

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

- * 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.

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 Number.