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					MO	2. Issuer Name and Ticker or Trading Symbol <u>MONOLITHIC POWER SYSTEMS INC</u> [MPWR]										all app Direc		ng Pe	10% C)wner
(Last) (First) (Middle) 6409 GUADALUPE MINES ROAD					3. Date of Earliest Transaction (Month/Day/Year) 11/03/2011									X	belo	er (give title w) s. of MPS 2	Asia	below)		
(Street) SAN JOS (City)	SAN JOSE CA 95120				4. If Amendment, Date of Original Filed (Month/Day/Year) 11/07/2011									Indiv ne) X	ividual or Joint/Group Filing (Check Applicable 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) Date (Month/Day				/Year)	Execution Date,			3. Transaction Code (Instr. 8) 4. Securities Acquired Disposed Of (D) (Instr and 5)						Secur	rities F ficially (ed l		Ownership m: Direct or irect (I) str. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
									Code	v	Amount	(A (C	() or))	Price		Repor Trans			u. .)	(1130. 4)
Common Stock 11/03/20				011	11			S ⁽¹⁾		187		D	\$12.17		14	43,996		D		
		Та	ble II	- Derivat (e.g., pi					,		osed of, onvertib				у Оч	vned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Do Execu if any (Mont	Code (li 8)	ransaction of ode (Instr. Derivative		vative rities ired r osed) . 3, 4	6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4) Amoun or Numbe of Title Shares		nstr. nount mber	of Derivative Security (Instr. 5)		9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	, E	10. 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.

Remarks:

This form is amended to correct the Form 4 filed on November 7, 2011. Due to an inadvertent error, the sales price and number of shares sold to pay the withholding taxes associated with the vesting of restricted stock was incorrectly reported. This form is amended to correct the sales price and number of shares sold.

By: Saria '	<u>Fseng For: Deming</u>	11/00/2011
37'		11/08/2011
<u>Xiao</u>		

** Signature of Reporting Person Date

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.