FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL
OMB Number: 3235-0287
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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						2. Issuer Name and Ticker or Trading Symbol <u>MONOLITHIC POWER SYSTEMS INC</u> [MPWR]									all app Direc	ionship of Reporting all applicable) Director Officer (give title		Person(s) to Issue 10% Owner Other (spec	
(Last) 79 GREA	(Last) (First) (Middle) 79 GREAT OAKS BLVD				3. Date of Earliest Transaction (Month/Day/Year) 08/08/2014									Х	belo	below) Pres. of MPS A		below)	
(Street) SAN JOSE CA 95119 (City) (State) (Zip)				4. If Amendment, Date of Original Filed (Month/Day/Year)								· •	δ. Indiv ₋ine) X	Form	or Joint/Group Filing (Check Applicable n filed by One Reporting Person n filed by More than One Reporting on				
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
Date				. Transaction ate //onth/Day/Y	/ear) Ex	2A. Deemed Execution Date, if any (Month/Day/Year)			3. Transac Code (I 8)		4. Securities Acquired (A Disposed Of (D) (Instr. 3, 5)			and Secu		ficially d	6. Ownership Form: Direct (D) or Indirect (I)		7. Nature of Indirect Beneficial Ownership
									Code	v	Amount	(A) or (D)	Price	ce T		wing rted saction(s) . 3 and 4)	(Instr. 4)		(Instr. 4)
Common Stock 08/08					.014				S ⁽¹⁾		3,126	D	\$4	\$42		50,246	D		
Common Stock 08.				08/11/2014					S ⁽¹⁾		2,084	D	\$42.	42.5772		58,162	D		
Common Stock																2,470	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)	Derivative Conversion Date Exec Security or Exercise (Month/Day/Year) if an			emed ion Date, /Day/Year)	4. Transaction Code (Instr. r) 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		Expira (Mont	tion D	Year)	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4) Amount or Number		of Deri Seci (Ins	rice ivative urity tr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Owne Form Direc or Inc (I) (In: 4)	(D) irect	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code V		(A) (D)		Date Exercisable		Expiration Date	Title	of Shares							

Explanation of Responses:

1. Transaction was executed during an authorized trading window in compliance with the Company's Insider Trading Compliance Program.

By: Saria Tseng For: Deming <u>08/12/2014</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.