FORM 4

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

OMB APPROVAL								
OMB Number:	3235-0287							
Estimated average burden								
hours per response:	0.5							

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

Name and Address of Reporting Person*  Xiao Deming					2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]								<u>1C</u>	(Check	all app	olicable)	10%	Person(s) to Issuer  10% Owner  Other (specify	
(Last) (First) (Middle) 79 GREAT OAKS BLVD					3. Date of Earliest Transaction (Month/Day/Year) 08/17/2015									X	belov	w)	below Asia Operatio	)	
(Street) SAN JOS	,				4. If Amendment, Date of Original Filed (Month/Day/Year)								)	6. Indiv Line) X	vidual or Joint/Group Filing (Check Applicable  Form filed by One Reporting Person  Form filed by More than One Reporting  Person				
(City)	(Sta		Zip)																
Table I - Non-Deriva  1. Title of Security (Instr. 3)  2. Transaction Date (Month/Day/Ye				ction	2A. Deemed Execution Date,			3. Transaction Code (Instr. 8)		sposed of, or Benefi  4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 5)			or 5. Am		ount of ities icially d	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	1	Repor Trans		(111501. 4)	(111501. 4)	
Common Stock 08/17/201					5			<b>J</b> <sup>(1)</sup>		81	A	\$43	.0185	23	39,851	D			
Common Stock 08/24/201					.5			S <sup>(2)</sup>		15	D	\$4	\$44.28		1,222	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 Execution Date, Gecurity or Exercise (Month/Day/Year) if any				t. Fransaction Code (Instr. 3)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Expira (Month	tion [		7. Title and Amount of Securities Underlying Derivative Security (Insti		Secu (Insi	vative str. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				c	Code	v	(A)	(D)	Date Exerci	sable	Expiration Date	Title	Amour or Number of Shares	er					

## Explanation of Responses:

- 1. Acquired through the Company's qualified ESPP program.
- $2. \ Shares \ sold \ to \ pay \ tax \ obligations \ resulting \ from \ the \ vesting \ of \ restricted \ stock \ units.$

By: Saria Tseng For: Deming <u>Niao</u> 08/26/2015

\*\* 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.