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 (Last) (First) (Middle) 79 GREAT OAKS BLVD (Street) SAN JOSE CA 95119						2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR] 3. Date of Earliest Transaction (Month/Day/Year) 09/11/2015 4. If Amendment, Date of Original Filed (Month/Day/Year)									X	Direct Office below Presidual of Form	er (give title Other (spec below) c. of MPS Asia Operations r Joint/Group Filing (Check Applic		Applicable	
(City)	(St	ate) (Z	Ľip)													Form filed by More than One Reporting Person				
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
Date					e Ex enth/Day/Year) if a		2A. Deemed Execution Date, if any (Month/Day/Year)					ities Acquired (d Of (D) (Instr. 3			3, 4 Sec Ber Owi		Amount of curities eneficially when		wnership m: Direct or rect (I)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
						Code	v	Amount	() (I	(A) or (D)		,	Following Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)		(msu. 4)			
Common Stock 09/11/2					015				S ⁽¹⁾		151		D	\$49.81		1,071			I	by Spouse
Common Stock																239,851			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)	ve Conversion or Exercise (Month/Day/Year) Price of Derivative Security Execution Date, if any (Month/Day/Year) (Month/Day/Year)		Code (lı	saction le (Instr. Securiti Acquire (A) or Dispose of (D) (Instr. 3 and 5)		ative rities ired rosed	6. Date E Expiratio (Month/E	n Da Day/Y	ear)	Amount of Securities Underlying Derivative Security (Inst 3 and 4)		ount nber	8. Price of Derivative Security (Instr. 5)		9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)		IO. Ownership Form: Direct (D) or Indirect I) (Instr.	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: Saria Tseng For: Deming Xiao 09/14/2015

** 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.