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

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) 04/05/2016									Relationship of Reporting Person(s) to Issuer Check all applicable) Director 10% Owner X Officer (give title below) below) Pres. of MPS Asia Operations			
(Street)	Street) SAN JOSE CA 95119				4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Indiv Line) X	Individual or Joint/Group Filing (Check Applicable ne)			
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																	
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Y				Year)	Execution Date,			3. Transaction Code (Instr. 8)		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 5)			4 and Secu		ficially 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		Repo Trans		(1130.4)	(111341. 4)
Common Stock 04/05/201)16	6			S ⁽¹⁾		98	D	\$62.	9689	696		I	by Spouse
Common Stock															30,460	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)	Derivative Security Price of Derivative Security Instr. 3) Price of Derivative Security Date (Month/Day/Year) if any (Month/			Code	action (Instr.	5. Nu of Deriv Securi Acqu (A) or Dispo of (D) (Instrand 5	rities ired r osed) c. 3, 4	Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr 3 and 4) Amount or Numbur of Shares		t		9. Number of 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. The reported sales were to cover taxes upon the vesting of restricted stock units, as required by the Company's equity incentive plans.

By: Saria Tseng For: Deming <u>04/06/2016</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.