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 a Xiao D	2. Issuer Name and Ticker or Trading Symbol <u>MONOLITHIC POWER SYSTEMS INC</u> [MPWR]							Check all ap Dire	oplicable) ector		Owner			
(Last) 79 GREA	3. Date of Earliest Transaction (Month/Day/Year) 10/30/2015							X belo	,	Other below Asia Operatio	·			
(Street) SAN JOSE CA 95 (City) (State) (Zip			5119 Zip)	4. If Amen	4. If Amendment, Date of Original Filed (Month/Day/Year)						ine) X For For	vidual 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)			2. Transaction Date (Month/Day/Ye	ar) Execution	2A. Deemed Execution Date, if any (Month/Day/Year)		ction Instr.	4. Securities Acquired (A) o Disposed Of (D) (Instr. 3, 4			d 5) Secu Ben Own	mount of urities eficially ned owing	6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
						Code	v	Amount	(A) or (D)	Price	Rep Trar	owing orted isaction(s) tr. 3 and 4)	(Instr. 4)	(instr. 4)
Common	Stock		10/30/201	5		S ⁽¹⁾		10,744	D	\$62.34	3 ⁽²⁾	229,107	D	
Common	Stock		10/30/201	5		S ⁽¹⁾		679	D	\$62.32	04(3)	228,428	D	
Common	Stock		11/02/201	5				109 D \$6		\$62.3	35	790	I	by Spouse
Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)														
Derivative Conversion Date E Security or Exercise (Month/Day/Year) if		3A. Deemed Execution Date, if any (Month/Day/Year)	on Date, Transaction Code (Instr.		er 6. Date Ex Expiration (Month/Da d			and 7. Title and Amount of Securities Underlying Derivative Security (Inst 3 and 4)		8. Price of Derivative Security (Instr. 5)	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. Transaction was executed during an authorized trading window in compliance with the Company's Insider Trading Compliance Program.

Code

2. The price is the weighted average sale price for the transactions reported on this line. The prices for the transactions reported on this line range from \$62.10 to \$62.69. The reporting person undertakes to provide, upon request by the staff of the Securities and Exchange Commission, the issuer, or a security holder of the issuer, full information regarding the number of shares sold at each separate price. 3. The price is the weighted average sale price for the transactions reported on this line. The prices for the transactions reported on this line range from \$62.14 to \$62.70. The reporting person undertakes to provide, upon request by the staff of the Securities and Exchange Commission, the issuer, or a security holder of the issuer, full information regarding the number of shares sold at each separate price. 4. Shares sold to pay tax obligations resulting from the vesting of restricted stock units.

Date

Exercisable

Expiration

Date

and 5)

(A) (D)

v

By: Meera Rao For: Deming 11/02/2015 <u>Xiao</u>

Amount o Number

of

Shares

Title

** 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.