FORM 4

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

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			Issuer Name and Ticker or Trading Symbol Monolithic Power Systems, Inc. [MPWR]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)				
				Director	10% Owner			
(Last)	(First)	(Middle)	3. Date of Earliest Transaction (Month/Day/Year)	_X_ Officer (give title	Other (specify			
5808 Lake Washington Blvd. NE			12/26/2019	below)	below)			
J .			12/20/2010	Pres. of MPS Asia Operations				
(Street)			4. If Amendment, Date Original Filed (Month/Day/Year)	Individual or Joint/Group Filing (Check Applical Line)				
Kirkland WA 98033				_X_Form Filed by One Reporting Person Form Filed by More than One Reporting Person				
(City)	(State)	(Zip)		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 / Year)	2A. Deemed Execution Date, if any (Month / Day / Year)			4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction	6. Ownership Form: Direct (D)	Beneficial Ownership
			Code	V	Amount	(A) or (D)		(s) (Instr. 3 and 4)	or Indirect (I) (Instr. 4)	(Instr. 4)
Common Stock	12/26/2019		S-(1)		12,802	D	\$178.557 (2)	314,819	D	
Common Stock								1,101	I	by Spouse

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

Conversion or Exercise	3A. Deemed Execution Date, if any (Month / Day / Year)	4. Transact Code (Instr. 8)		5. Numi of Deriv Secu Acqu (A) o Dispo of (D (Instr 4, an	rative rities ired r osed)	6. Date Exer and Expiration (Month / Day	Amor Secu Unde Deriv Secu	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		Derivative Securities Beneficially Owned Following Reported	Derivative Security: Direct (D) or Indirect (I)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
		Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				

Explanation of Responses:

- (1) In accordance with the reporting person's 10b5-1 trading plan.
- (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 \$177.93 to \$179.05. 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.

Signatures

/s/ By: Saria Tseng For: Deming Xiao 12/30/2019
"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.

Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB control number.

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