

# FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL

OMB Number: 3235-0287  
 Expires: February 28, 2018  
 Estimated average burden  
 hours per response . . . . . 0.5

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

(Print or Type Responses)

1. Name and Address of Reporting Person*  <b>Xiao, Deming</b>  (Last) (First) (Middle)  <b>4040 Lake Washington Blvd. NE, Suite 201</b>  (Street)  <b>Kirkland, WA 98033</b>  (City) (State) (Zip)			2. Issuer Name <b>and</b> Ticker or Trading Symbol  <b>MONOLITHIC POWER SYSTEMS (MPWR)</b>  3. Date of Earliest Transaction Required to be Reported (Month/Day/Year) <b>10/22/2019</b>  4. If Amendment, Date Original Filed(Month/Day/Year)		5. Relationship of Reporting Person(s) to Issuer (Check all applicable) _____ Director _____ 10% Owner <u> X </u> Officer (give title below) _____ Other (specify below)  <b>Pres. of MPS Asia Operations</b>  6. Individual or Joint/Group Filing (Check Applicable Line) <u> X </u> 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/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	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			
Common Stock	10/22/19 (1)		M		23,338	A	\$0.0000	323,343	D	
Common Stock	10/22/19 (2)		M		9,600	A	\$0.0000	332,943	D	
Common Stock								1,101	I	by Spouse

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).

**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.**

(Over)  
 SEC 1474 (11-11)

**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)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Underlying Securities (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned following Reported Transaction(s) (Instr. 4)	10. Ownership Form of Derivative Security: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Performance Shares	(1)	10/22/19		M			23,338	(1)	(1)	Common Stock	23,338	\$0.0000	4,876	D	
Restricted Stock Units	(2)	10/22/19		M			9,600	(2)	(2)	Common Stock	9,600	\$0.0000	19,200	D	

Explanation of Responses:  
 See continuation page(s) for footnotes

\*\* Intentional misstatements or omissions of facts constitute Federal Criminal Violations.  
 See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

By: Saria Tseng For: Deming Xiao  
 \*\* Signature of Reporting Person

10/24/2019  
 Date

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 Number.

4040 Lake Washington Blvd. NE, Suite 201  
Kirkland, WA 98033

- (1) On December 31, 2015, the reporting person was granted a target number of 75,678 shares of performance units in four tranches subject to satisfaction of share price targets over the next four years. The vesting of performance units in the second, third and fourth tranches is also subject to the satisfaction of certain operational goals, as determined by the Compensation Committee. All performance units are subject to time based vesting and require service through January 1, 2020 or an earlier change in control. Once vested, one-third of the resulting shares have no sales restrictions and are sellable on January 1, 2020, one-third of the shares have sales restrictions until January 1, 2021 and one-third of the shares have sales restrictions until January 1, 2022. On October 22, 2019, the Compensation Committee determined one of the operational goals for the fourth tranche of performance units had been satisfied, which resulted in 23,338 units being credited, subject to time based vesting.
- (2) On October 25, 2018, the reporting person was granted a target number of 9,600 performance units and can earn up to a maximum of 48,000 performance units subject to satisfaction of five stock price targets ranging from \$140 to \$172 over the performance periods from October 25, 2018 to December 31, 2023, as determined by the Compensation Committee of the Company. All performance units are subject to time based vesting and require service through January 1, 2024 or an earlier change in control. Once vested, performance units convert into shares of common stock on a 1-for-1 basis and one-third of the resulting shares have no sales restrictions and are sellable on January 1, 2024, one-third of the shares have sales restrictions until January 1, 2025 and one-third have sales restrictions until January 1, 2026. On October 22, 2019, the third price target had been met and approved by the Compensation Committee, which resulted in 9,600 units being credited, subject to time based vesting above.

