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*  Blegen Theodore  (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)  02/12/2018  4. If Amendment, Date of Original Filed (Month/Day/Year)								5. Relationship of Reporting Person(s) to Issuer (Check all applicable)  Director 10% Owner  X Officer (give title Other (specify below)  CFO  6. Individual or Joint/Group Filing (Check Applicable Line)				Owner (specify )
	SAN JOSE CA 95119												X	Form filed by One Reporting Person Form filed by More than One Reporting Person			
(City)	(Sta		ip)	<u> </u>				_									
1. Title of S	Security (Inst	2. Transaction Date	2. Transaction 2A. Deed Execution (Month/Day/Year)		A. Deemed execution Date,		3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 a			5. Ar Secu Bene Own		nount of rities ficially	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
						Cod	de	v .		(A) or (D)	Price		Repo Trans		(111301 . 4)	(111501. 4)	
Common	Stock	02/12/2018			S		(1)		7,564	D	\$108.1	\$108.1941		55,431	D		
Common Stock			02/13/2018				S			7,261	D	D \$108.10		6 <sup>(3)</sup> 58,170		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)	2. Conversion or Exercise Price of Derivative Security	version pate (Month/Day/Year) if any (Month/Day/Year)				Deriva Secur Acqui (A) or Dispo of (D) (Instr. and 5	ative ities red sed 3, 4	Expiration Date (Month/Day/Year) ties sed 3, 4				7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)  Amoun or Numbe of Title Shares		vative urity r. 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. Shares sold to pay tax obligations resulting from the vesting of restricted stock units.
- 2. In accordance with the reporting person's 10b5-1 trading plan.
- 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 \$107.06 to \$109.77. 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.

By: Saria Tseng For: Bernie <u>02/13/2018</u>

\*\* Signature of Reporting Person Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

- $^{\star}$  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.