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) 01/30/2018									S. Relationship of Reporting Check all applicable) Director X Officer (give title below) CF				10% Owner Other (specify below)		
(Street) SAN JOS (City)			5119 Zip)		4. 11 /	4. If Amendment, Date of Original Filed (Month/Day/Year)										Form	Il or Joint/Group Filing (Check Applicable rm filed by One Reporting Person rm filed by More than One Reporting erson				
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																					
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/					/Year)	Execu if any	eemed tion Date, h/Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Acquired (A Disposed Of (D) (Instr. 3 5)				, 4 and Sec Ben Owr		ount of ities icially d wing	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		Reported Transaction(s) (Instr. 3 and 4)				(111501. 4)				
Common Stock 01/30/2						18			S ⁽¹⁾		194		D	\$120.66		40,142			D		
Common Stock 01/30/2					018				S ⁽²⁾		256		D	\$120.66		39,886			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)	Conversion or Exercise (Month/Day/Year) if any (Month/Day/Year) Derivative Security		4. Transac Code (I 8)	(Instr. Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)			6. Date Exercisable and Expiration Date (Month/Day/Year) Date Expiration Exercisable Date			7. Title and Amount of Securities Underlying Derivative Security (Instra 3 and 4) Amount or Numb of Share		nstr.	1		9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)		IO. Ownership Form: Direct (D) or Indirect I) (Instr.	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.
- 2. In accordance with the reporting person's 10b5-1 trading plan.

By: Saria Tseng For: Bernie Blegen

01/30/2018

** 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.