FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL								
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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

Name and Address of Reporting Person* Blegen Theodore					MO	2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC MPWR MPWR								5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner Officer (give title Other (specify				
(Last) 79 GREA	(Fir	,	(Middle)				3. Date of Earliest Transaction (Month/Day/Year) 08/15/2016								X Officer (give title below) CFO			
(Street) SAN JOS (City)			5119 Zip))	4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable ine) X Form filed by One Reporting Person Form filed by More than One Reporting Person				
		Tabl	eI-	Non-Deriv	ative	Secu	ıritie	s Ac	quired	, Di	sposed o	f, or B	enefic	ially	Own	ed		4
1. Title of Security (Instr. 3)			2. Transaction Date (Month/Day/	Year) E:	2A. Deemed Execution Date if any (Month/Day/Yea		,	3. Transaction Code (Instr.) 8)		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 5)			4 and Secur Benef Owne		ficially ed	6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership	
							Code	v	Amount	(A) or (D)	Price		Following Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)	(Instr. 4)		
Common Stock				08/15/20	16			J ⁽¹⁾		96	A	\$49.	3765		18,866	D		
Common Stock 08/1				08/17/20	16	6		S ⁽²⁾		40	D	\$73	\$73.48		18,826	D		
Common	Common Stock 08/18/20				16	6			S ⁽²⁾	Г	11	D	\$73	\$73.52		18,815	D	
		Та	ble	II - Derivat (e.g., p							osed of, convertib				wned	l		
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Exec if an	Deemed cution Date, y nth/Day/Year)	4. Transac Code (I 8)	saction of De (Instr. Sec Ac (A) Dis		osed 0) tr. 3, 4	Expiration I (Month/Day/		Date	7. Title and Amount of Securities Underlying Derivative Security (Inst 3 and 4)		of Deri Seci	Price ivative curity str. 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)
					Code	v	(A)	(D)	Date Exerci	sable	Expiration Date	Title	Amoun or Numbe of Shares					

Explanation of Responses:

- 1. Acquired through the Company's qualified ESPP program.
- 2. The reported sales were to cover taxes upon the vesting of restricted stock units, as required by the Company's equity incentive plans.

By: Saria Tseng For: T. Bernie Blegen 08/18/2016

** 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.