FORM 4

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

OMB APPROVAL									
OMB Number:	3235-0287								
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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*  Ueunten Paul					2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [ MPWR ]									Check	all appl Direct	•	ng Pers	son(s) to Is 10% Ov Other (s	wner
(Last) (First) (Middle) 6409 GUADALUPE MINES ROAD				3. Date of Earliest Transaction (Month/Day/Year) 07/06/2009									X	below	)	n Eng	below) n Engineering		
(Street) SAN JOSE CA 95120			_	4. If Amendment, Date of Original Filed (Month/Day/Year)									. Indivi ine) X	idual or Joint/Group Filing (Check Applicab Form filed by One Reporting Person Form filed by More than One Reporting Person				on	
(Oity)	(City) (State) (Zip)  Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																		
1. Title of Security (Instr. 3)  2. Transaction Date (Month/Day/Y			tion	2A. Deemed Execution Date,		3. Transac Code (Ir 8)	tion	4. Securities Disposed O	ed (A) or	or 5. Am and 5) Secur		ount of ities icially	6. Ownership Form: Direct (D) or Indirect (I)	: Direct r ect (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			07/06/2	07/06/2009					M <sup>(1)</sup>		10,000	A	\$1.2	1.2		8,095		D	
Common Stock 07/06/2		2009	)				S <sup>(1)</sup>		10,000	D	\$21.972	721 <sup>(2)</sup> 58,		3,095	D				
Common Stock														15	153,556			Ueunten Trust I	
Common Stock															12	123,900			Ueunten Trust II
Common Stock															30	),550			Ueunten Trust III
Common Stock														30	30,550			Ueunten Trust IV	
		Ta	able II - Der								posed of, converti				wned		,		
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	Date (Month/Day/Year)	3A. Deemed Execution Date if any (Month/Day/Ye	4. Tr	ansact	action (Instr.		umber ivative urities uired or posed D) tr. 3, 4	6. Date Exe Expiration (Month/Day		cisable and Date	7. Title a Amount Securitie Underly Derivati	and of es ing	8. P of Der Sec		9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Owners Form: Direct (I or Indir (I) (Instr	Ownership Form: Direct (D) or Indirect I) (Instr.	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Co	ode	v	(A)	(D)	Date Exerci	isable	Expiration Date	Title	Amount or Number of Shares						
Incentive Stock Option (right to buy)	\$1.2	07/06/2009		1	M <sup>(1)</sup>			10,000	0 07/15.	/2003	07/17/2012	Commor Stock	10,000	0	\$0	23,000		D	

## 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 \$21.87 to \$22.06. 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: Rick Neely For: Paul <u>Ueunten</u>

07/06/2009

\*\* Signature of Reporting Person

son 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.