

**SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

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**SCHEDULE 13G**

**UNDER THE SECURITIES EXCHANGE ACT OF 1934  
(Amendment No. 1)\***

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**MONOLITHIC POWER SYSTEMS**

(Name of Issuer)

**COMMON STOCK**  
(Title of Class of Securities)

**609839105**  
(CUSIP Number)

**December 31, 2012**  
(Date of Event Which Requires Filing of this Statement)

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Check the appropriate box to designate the Rule pursuant to which this Schedule is filed:

Rule 13d – 1(b)

Rule 13d – 1(c)

Rule 13d – 1(d)

\* The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter disclosures provided in a prior cover page.

The information required on the remainder of this page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, *see the Notes.*)

1	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY):  Columbia Wanger Asset Management, LLC 04-3519872	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions)  (a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/> <sup>1</sup>	
3	SEC USE ONLY	
4	CITIZENSHIP OR PLACE OF ORGANIZATION  Delaware	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5	SOLE VOTING POWER  2,062,000
	6	SHARED VOTING POWER
	7	SOLE DISPOSITIVE POWER  2,295,000
	8	SHARED DISPOSITIVE POWER
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  2,295,000	
10	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (See Instructions)  <input type="checkbox"/>	
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)  6.4%	
12	TYPE OF REPORTING PERSON (See Instructions)  IA	

<sup>1</sup> This filing describes the reporting person's relationship with other persons, but the reporting person does not affirm the existence of a group.

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**Item 1(a). Name of Issuer:**  
Monolithic Power Systems Inc

**Item 1(b). Address of Issuer's Principal Executive Offices:**  
6409 Guadalupe Mines Road  
San Jose, CA 95120

**Item 2(a). Name of Person Filing:**  
Columbia Wanger Asset Management, LLC

**Item 2(b). Address of Principal Business Office or, if None, Residence:**  
227 West Monroe Street, Suite 3000, Chicago, IL 60606.

**Item 2(c). Citizenship:**  
Delaware

**Item 2(d). Title of Class of Securities:**  
Common Stock

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- Item 2(e).**     **CUSIP Number:**  
609839105
- Item 3.**       **If This Statement is Filed Pursuant to Rule 13d-1(b), or 13d-2(b) or (c), Check Whether the Person Filing is a:**  
(a)     Columbia Wanger Asset Management, LLC is an investment adviser in accordance with rule 13d-1(b)(1)(ii)(E).
- Item 4.**       **Ownership:**  
Columbia Wanger Asset Management, LLC (CWAM) does not directly own any shares of common stock of the issuer. As the investment adviser of various unregistered and registered investment companies and managed accounts, CWAM may be deemed to beneficially own the shares reported herein. CWAM disclaims beneficial ownership of any shares reported on this Schedule.
- Item 5.**       **Ownership of 5 Percent or Less of a Class:**  
Not Applicable
- Item 6.**       **Ownership or More than Five Percent on Behalf of Another Person:**  
To the knowledge of CWAM, no other persons besides and those persons for whose shares of common stock CWAM reports beneficial ownership have the right to receive or the power to direct the receipt of dividends from or the proceeds from the sale of the securities of the issuer reported herein.
- Item 7.**       **Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on by the Parent Holding Company or Control Person:**  
Not Applicable.
- Item 8.**       **Identification and Classification of Members of the Group:**  
Not Applicable.
- Item 9.**       **Notice of Dissolution of Group:**  
Not Applicable.

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**Item 10. Certification:**

By signing below each of the undersigned certifies that, to the best of such undersigned's knowledge and belief, the securities referred to above were acquired and are held in the ordinary course of business and were not acquired and are not for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

**SIGNATURE**

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Dated: February 14, 2013

**Columbia Wanger Asset Management, LLC**

By: /s/ Bruce H. Lauer

Bruce H. Lauer  
Chief Operating Officer