#### SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

FORM 8-K

CURRENT REPORT Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

Date of Report (Date of Earliest Event Reported): March 10, 2005

A.P. PHARMA, INC.

(Exact name of Registrant as specified in its charter)

DELAWARE 1-16109

94-2875566

(State or other jurisdiction (Commission (IRS Employer of incorporation) File Number) Identification No.)

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123 SAGINAW DRIVE, REDWOOD CITY, CALIFORNIA 94063 \_\_\_\_\_

(Address of principal executive offices) (Zip code)

Registrant's telephone number, including area code: (650) 366-2626

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N/A

(Former Name or Former Address, if Changed Since Last Report)

INFORMATION TO BE INCLUDED IN THE REPORT

ITEM 2.02

On March 10, 2005, the Registrant issued a press release announcing its financial results for the fiscal quarter and year ended December 31, 2004. The press release is attached hereto as Exhibit 99.1 and incorporated herein by reference.

- ITEM 9.01 Financial Statements and Exhibits.
  - (c) Exhibits
  - 99.1 Press release dated March 10, 2005.

### **SIGNATURE**

Pursuant to the requirements of the Securities Exchange Act of 1934, the Registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

A.P. PHARMA, INC.

Date: March 10, 2005

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By: /S/ Michael O'Connell 

> Michael P. J. O'Connell, President and Chief Executive Officer

EXHIBIT INDEX

Press release dated March 10,2005.

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Exhibit 99.1

#### A.P. Pharma Logo

News Release

# A.P. PHARMA REPORTS 2004 FOURTH QUARTER AND FULL YEAR RESULTS

- - IND Submitted for APF530; Phase 2 Study Cleared to Begin in 2005 -

REDWOOD CITY, Calif. (March 10, 2005) - A.P. Pharma, Inc. (NASDAQ NM: APPA), a specialty pharmaceutical company, today reported financial results for the three and 12 months ended December 31, 2004.

## Recent and Financial Highlights

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- \* APF530 in development for the prevention of acute and delayed chemotherapy-induced nausea and vomiting progresses to Phase 2.
  o Dose-ranging study confirms dose linearity and safety in healthy volunteers.
- o Highest dose (20 mg dose of granisetron) added.
- o Clearance received from the FDA to initiate a Phase 2 study following IND submission.
- o Phase 2 study in cancer patients expected to commence in 2Q05.

  \* Total royalties for the fourth quarter increased 13%, compared with the prior year's fourth quarter.
- o Royalties from sales of Carac(TM) increased 18%.
- o Royalties from sales of Retin-A Micro(R) increased 10%.
- \* Cash, cash equivalents and short-term investments were \$13.6 million as of December 31, 2004.

#### Financial Results

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A.P. Pharma reported royalties for the fourth quarter of 2004 of \$1,457,000, compared with \$1,291,000 for the fourth quarter of 2003, an increase of 13%. Fourth quarter royalties on sales of Retin-A Micro and Carac grew by 10% and 18%, respectively. Contract revenues totaled \$25,000, compared with \$67,000 for the fourth quarter of 2003. Total revenues for the fourth quarter of 2004 totaled \$1,482,000, compared with \$1,358,000 for the fourth quarter of 2003, an increase of \$124,000 or 9%.

The Company reported that revenues for 2004 totaled \$5,404,000, compared with \$4,848,000 in 2003, an increase of \$556,000 or 11%. Full-year 2004 royalties were \$4,972,000, an increase of \$470,000 or 10%, compared with the prior year. Royalties on sales of Retin-A Micro and Carac grew by 10% and 12%, respectively. Full-year contract revenues increased by \$86,000 or 25% to \$432,000, compared with \$346,000 in the prior year.

Compared to the corresponding periods in the prior year, research and development expense increased by \$867,000 or 40% to \$3,055,000 for the fourth quarter of 2004, and increased by \$3,074,000 or 37% to \$11,495,000 for the year ended December 31, 2004. The increase is due to the cost of the Phase 2 clinical trial using APF112 for the treatment of post-surgical pain, in addition to toxicology studies and a Phase 1 clinical trial using APF530 for the prevention of acute and delayed chemotherapy-induced nausea and vomiting.

General and administrative expense increased by \$78,000 or 11% to \$765,000 for the fourth quarter of 2004, and by \$186,000 or 6% to \$3,225,000 for the year ended December 31, 2004, due primarily to expenses associated with the requirements of the Sarbanes-Oxley Act of 2002.

The loss from continuing operations in the fourth quarter of 2004 was \$2,263,000, compared with a loss from continuing operations in the fourth quarter of 2003 of \$1,464,000. The loss from continuing operations for the 12 months ended December 31, 2004 was \$9,092,000, compared with a loss from continuing operations for the prior year of \$6,208,000. The increase in loss from continuing operations for the fourth quarter and the full year resulted primarily from the increased spending on clinical trials with APF112 and APF530.

### Clinical Update

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Our lead product candidate APF530, which is being tested for the prevention of acute and delayed chemotherapy-induced nausea and

vomiting using a single subcutaneous injection, is about to enter Phase 2 clinical testing. In the fourth quarter of 2004, we evaluated 2.5 mg, 5 mg, and 10 mg doses of the anti-nausea drug granisetron, the active pharmacological agent in APF530, in a Phase 1 clinical trial and saw sustained plasma levels over a four-day period. We added and have now completed a fourth cohort to this safety study using a 20 mg dose. Preliminary results again indicate a dose-proportionate increase in plasma levels of granisetron. Meaningful plasma levels were observed over a five-day period.

We believe these results are particularly important because published data suggest that appropriate plasma levels of granisetron can potentially predict the therapeutic effect on both acute and delayed chemotherapy-induced nausea and vomiting.

A.P. Pharma filed an IND with the FDA in early 2005, and following FDA clearance we now expect to initiate a Phase 2 clinical trial with APF530 during the second quarter of 2005. The protocol design is an open label, ascending single dose in patients undergoing moderately emetogenic chemotherapy for cancer. The primary endpoints are pharmacokinetics, safety and tolerability.

With regard to APF112 for the treatment of post-surgical pain, we have designed a further Phase 2 trial to evaluate a combination therapy using bupivacaine for immediate pain relief and APF112 for longer-term post-surgical pain relief. Our goal is to eliminate the need for opioids, which can have serious side effects. We plan to initiate this next study after securing an appropriate partner for this product application.

# Conference Call Information

Management will be hosting an investment community conference call beginning at 11:00 a.m. Eastern Time (8:00 a.m. Pacific Time) today to discuss this announcement and to answer questions.

To participate in the live call by telephone, please dial (888) 803-8275 from the U.S. or (706) 634-1287 from outside the U.S. A telephone replay will be available for 48 hours by dialing (800) 642-1687 from the U.S. or (706) 645-9291 from outside the U.S., and entering reservation number 4453327.

Individuals interested in listening to the conference call via the Internet may do so by visiting www.appharma.com. A replay will be available on the Company's Web site for 30 days.

# About A.P. Pharma

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A.P. Pharma is a specialty pharmaceutical company focused on the development of ethical (prescription) pharmaceuticals utilizing its proprietary polymer-based drug delivery systems. The Company's primary focus is the development and commercialization of its bioerodible injectable and implantable systems under the trade name Biochronomer(TM). Initial target areas of application for the Company's drug delivery technology include anti-nausea, pain management, inflammation and ophthalmic applications. The Company's product development programs are funded by the sale of common stock in June 2004, royalties from topical products currently marketed by pharmaceutical partners, proceeds from the divestitures of its cosmeceutical and analytical standards product lines and by fees it receives from collaborative partners. For further information visit the Company's web site at www.appharma.com.

# Forward-looking Statements

Except for historical information, this news release contains certain forward-looking statements that involve risks and uncertainties including, among others, uncertainty associated with timely development, approval, launch and acceptance of new products, establishment of new corporate alliances and progress in research and development programs. Other risks and uncertainties associated with the Company's business and prospects are identified in the Company's

establishment of new corporate alliances and progress in research development programs. Other risks and uncertainties associated wi the Company's business and prospects are identified in the Company filings with the Securities and Exchange Commission. The Company does not undertake to revise these forward-looking statements to reflect events or circumstances occurring in the future.

Investor Relations Contacts:

Company Contact:

(Financial tables follow)

A.P. PHARMA, INC. Income Statement Highlights (in thousands, except per share data)

	Three Months Ended December 31, December 31, 2004 2003		2004	December 31, 2003(1)
Royalties Contract Revenues	\$ 1,457 25	\$ 1,291 67	\$ 4,972 432	\$ 4,502 346
Total Revenues		1,358	5,404	4,848
Operating Expenses: Research & Development General & Administrative	3,055 2 765	2,188 687	11,495 3,225	8,421 3,039
Total Operating Exper	ises 3,820	2,875	14,720	11,460
Operating Loss	(2,338)	(1,517)	(9,316)	(6,612)
Interest and Other, Net	75 	53 	224	404
Loss from Continuing Operations	(2,263)	(1,464)	(9,092)	(6,208)
Gain (Loss) on Disposition of Discontinued Operation		86	(129)	1,845
Net Loss	\$(2,257) =====		\$(9,221) =====	
Basic and Diluted Loss Per Share: Loss from Continuing Operations	\$ (0.09) =====	` ,	\$ (0.40) ======	` ,
Net Loss		\$ (0.07)	\$ (0.40) =====	\$ (0.21)
Shares Used in Calculating Loss Per Share: Basic and Diluted	25,000 =====	20,632 =====	22,909 =====	20,553 =====

(1) Information derived from audited financial statements included in the Company's 2003 Form 10-K.

A.P. PHARMA, INC. Balance Sheet Highlights (in thousands)

December 31, December 31, 2004 2003

Marketable Securities Accounts Receivable, Net Other Current Assets	\$13,596 1,506 394	\$ 9,484 1,340 434				
Total Current Assets	15,496	11,258				
Property & Equipment, Net Other Non-Current Assets	1,235 283	1,430 467				
Total Assets	\$17,014 =====	\$13, 155 =====				
Liabilities and Shareholders' Equity						
Current Liabilities Shareholders' Equity	\$ 2,860 14,154	\$ 1,892 11,263				
Total Liabilities and Shareholders' Equity	\$17,014 =====	\$13,155 =====				