UNITED STATES 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 27, 2014

Cytokinetics, Incorporated

(Exact name of registrant as specified in its charter)

Delaware	000-50633	94-3291317	
(State or other jurisdiction of incorporation)	(Commission File Number)	(I.R.S. Employer Identification No.)	
280 East Grand Avenue, South San Francisco, California		94080	
(Address of principal executive offices)		(Zip Code)	
Registrant's telephone number, including area code:		(650) 624 - 3000	
Not Applicable			
Former name or former address, if changed since last report			
Check the appropriate box below if the Form 8-K filing is intended following provisions:	d to simultaneously satisfy th	ne filing obligation of the registrant under any of the	
 Written communications pursuant to Rule 425 under the Sec Soliciting material pursuant to Rule 14a-12 under the Exchan Pre-commencement communications pursuant to Rule 14d-2 Pre-commencement communications pursuant to Rule 13e-4 	nge Act (17 CFR 240.14a-12) 2(b) under the Exchange Act	(17 CFR 240.14d-2(b))	

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Item 8.01 Other Events.

On March 27, 2014, Cytokinetics, Inc. issued a press release announcing the initiation of an additional Phase I clinical trial of CK-2127107, a fast skeletal muscle troponin activator. The trial, called CY 5012, is a double-blind, randomized, placebo-controlled, parallel group study in which the primary objective is to assess the safety, tolerability, and pharmacokinetics of CK-2127107 following multiple ascending doses in healthy volunteers. The initiation of this clinical trial triggers a \$2 million milestone payment from Astellas Pharma Inc. to Cytokinetics under the terms of the collaboration between the companies established in June 2013.

A copy of the press release is filed as Exhibit 99.1 to this Current Report on Form 8-K, and is incorporated herein by reference.

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SIGNATURES

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.

Cytokinetics, Incorporated

March 27, 2014

By: /s/ Sharon Barbari

Name: Sharon Barbari

Title: Executive Vice President, Finance and Chief Financial

Officer

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Exhibit Index

Exhibit No.	Description	
99.1	Press Release, dated March 27, 2014	

CYTOKINETICS ANNOUNCES INITIATION OF MULTIPLE DOSE PHASE I CLINICAL TRIAL OF CK-2127107

Commencement of Study Triggers Milestone Payment from Astellas

South San Francisco, CA, March 27, 2014 – Cytokinetics, Incorporated (Nasdaq: CYTK) announced the initiation of an additional Phase I clinical trial of CK-2127107, a fast skeletal muscle troponin activator. The trial, called CY 5012, is a double-blind, randomized, placebo-controlled, parallel group study in which the primary objective is to assess the safety, tolerability, and pharmacokinetics of CK-2127107 following multiple ascending doses in healthy volunteers. The initiation of this clinical trial triggers a \$2 million milestone payment from Astellas Pharma Inc. (Tokyo Stock Exchange: 4503, "Astellas") to Cytokinetics under the terms of the collaboration between the companies established in June 2013.

In CY 5012, volunteers in each ascending dose cohort will be randomized to receive either CK-2127107 or placebo. CY 5012 will separately enroll cohorts of volunteers in two age groups, one between the ages of 18 and 55 and one between the ages of 65 and 85. Each cohort will be comprised of six male and six female participants. In each cohort, volunteers will receive CK-2127107 or placebo in accordance with 2:1 randomization. An initial cohort in each age group will receive 300 mg of CK-2127107 or placebo to be followed by a second cohort in each age group that will receive 1000 mg of CK-2127107 or placebo. Doses of CK-2127107 and placebo will be administered orally for 10 days. If these doses of CK-2127107 are well-tolerated, a final cohort of volunteers between the ages of 18 and 55 will receive CK-2127107 at either 1500 mg or 2000 mg, to be determined following a review of data from the prior dose cohorts or placebo. In each cohort, pharmacokinetic assessments will be performed following the first dose of CK-2127107 and throughout the study to day 10.

"This multi-dose clinical trial of CK-2127107 is another in the series of Phase I trials that Cytokinetics is conducting on behalf of the collaboration," stated Fady Malik, MD, PhD, Cytokinetics' Senior Vice President, Research and Early Development. "These studies along with other Phase II readiness activities will inform the potential progression of CK-2127107 into a Phase II development program focused on non-neuromuscular indications."

Development Status of CK-2127107

Cytokinetics previously reported the results of the first-time-in-humans clinical trial of CK-2127107, called CY 5011. This Phase I clinical trial was a double-blind, randomized, placebo-controlled study designed to assess the safety, tolerability, and pharmacokinetics of single ascending oral doses of CK-2127107 administered to healthy adult males in a three-period, escalating dose, crossover design. Planned single doses of CK-2127107 up to 4000 mg, the highest dose administered in the trial, were well-tolerated; therefore, a maximum tolerated dose could not be defined. The pharmacokinetic profile of CK-2127107 was linear and dose-proportional across the dose range studied, with a mean terminal half-life compatible with once or twice daily dosing. In addition, Cytokinetics recently completed dosing in CY 5014, a Phase I clinical trial of CK-2127107 in healthy male volunteers. CY 5014 is a randomized, open-label, two-period crossover study designed to assess the relative oral bioavailability, pharmacokinetics, safety and tolerability of two oral formulations of CK-2127107.

Cytokinetics and Astellas Collaboration

CY 5012 is being conducted by Cytokinetics in collaboration with Astellas. Cytokinetics and Astellas entered into a collaboration in June 2013 to advance novel therapies, including CK-2127107, for diseases and medical conditions associated with muscle weakness. Cytokinetics has exclusively licensed to Astellas the rights to co-develop and commercialize CK-2127107 for potential application in non-neuromuscular indications. Cytokinetics is primarily responsible for the conduct of Phase I clinical trials and certain Phase II readiness activities for CK-2127107 and Astellas will be primarily responsible for the conduct of subsequent development and commercialization activities for CK-2127107. Cytokinetics and Astellas are jointly conducting research in the area of skeletal muscle activation. Astellas has exclusive rights to develop and commercialize other fast skeletal troponin activators in non-neuromuscular indications and to develop and commercialize other novel mechanism skeletal muscle activators in all indications, subject to certain Cytokinetics' development and commercialization rights. Under the collaboration, Cytokinetics is eligible to receive over \$450 million in pre-commercialization and commercialization milestones plus royalties.

Background on Skeletal Muscle Activators

Skeletal muscle contractility is driven by the sarcomere, the fundamental unit of skeletal muscle contraction. It is a highly ordered cytoskeletal structure composed of several key proteins. The first, skeletal muscle myosin, is the cytoskeletal motor protein that converts chemical energy into mechanical force through its interaction with a second protein, actin. A set of regulatory proteins, which includes tropomyosin and several types of troponin, make the actin-myosin interaction dependent on changes in intracellular calcium levels. In non-clinical models, CK-2127107 slows the rate of calcium release from the regulatory troponin complex of fast skeletal muscle fibers, which sensitizes the sarcomere to calcium, leading to an increase in skeletal muscle contractility. CK-2127107 and other skeletal sarcomere activators have demonstrated pharmacological activity that may lead to new therapeutic options for diseases associated with aging and muscle wasting. The clinical effects of muscle wasting, fatigue and loss of mobility can range from decreased quality of life to life-threatening complications. By directly improving skeletal muscle function, a small molecule activator of the skeletal sarcomere may potentially enhance physical performance and quality of life in patients with conditions marked by muscle weakness and fatigue.

About Cytokinetics

Cytokinetics is a clinical-stage biopharmaceutical company focused on the discovery and development of novel small molecule therapeutics that modulate muscle function for the potential treatment of serious diseases and medical conditions. Cytokinetics' lead drug candidate from its cardiac muscle contractility program, *omecamtiv mecarbil*, is in Phase II clinical development for the potential treatment of heart failure. Amgen Inc. holds an exclusive license worldwide to develop and commercialize *omecamtiv mecarbil* and related compounds, subject to Cytokinetics' specified development and commercialization participation rights. Cytokinetics is independently developing *tirasemtiv*, a fast skeletal muscle activator, as a potential treatment for diseases and medical conditions associated with neuromuscular dysfunction. *Tirasemtiv* is currently the subject of a Phase II clinical trials program and has been granted orphan drug designation and fast track status by the U.S. Food and Drug Administration and orphan medicinal product designation by the European Medicines Agency for the potential treatment of amyotrophic lateral sclerosis (ALS). Cytokinetics is collaborating with Astellas Pharma Inc. to develop CK-2127107, a skeletal muscle activator structurally distinct from *tirasemtiv*, for non-neuromuscular indications. All of these drug candidates have arisen from Cytokinetics' muscle biology focused research activities and are directed towards the cytoskeleton. The cytoskeleton is a complex biological infrastructure that plays a fundamental role within every human cell. Additional information about Cytokinetics can be obtained at www.cytokinetics.com.

This press release contains forward-looking statements for purposes of the Private Securities Litigation Reform Act of 1995 (the "Act"). Cytokinetics disclaims any intent or obligation to update these forward-looking statements, and claims the protection of the Act's Safe Harbor for forward-looking statements. Examples of such statements include, but are not limited to, statements relating to Cytokinetics' and its partners' research and development activities, including the conduct, design and results of clinical trials, the significance and utility of preclinical data and clinical trial results, and the

properties and potential benefits of Cytokinetics' skeletal muscle activators, including CK-2127107, and other drug candidates; and the expected roles of Cytokinetics and Astellas under their collaboration. Such statements are based on management's current expectations, but actual results may differ materially due to various risks and uncertainties, including, but not limited to, Cytokinetics anticipates that it will be required to conduct at least one confirmatory Phase III clinical trial of tirasemtiv in ALS patients which will require significant additional funding, and it may be unable to obtain such additional funding on acceptable terms, if at all; potential difficulties or delays in the development, testing, regulatory approvals for trial commencement, progression or product sale or manufacturing, or production of Cytokinetics' drug candidates that could slow or prevent clinical development or product approval, including risks that current and past results of clinical trials or preclinical studies may not be indicative of future clinical trials results, patient enrollment for or conduct of clinical trials may be difficult or delayed, Cytokinetics' drug candidates may have adverse side effects or inadequate therapeutic efficacy, the U.S. Food and Drug Administration or foreign regulatory agencies may delay or limit Cytokinetics' or its partners' ability to conduct clinical trials, and Cytokinetics may be unable to obtain or maintain patent or trade secret protection for its intellectual property; Astellas' and Amgen's decisions with respect to the design, initiation, conduct, timing and continuation of development activities for CK-2127107 and omecamtiv mecarbil, respectively: Cytokinetics may incur unanticipated research and development and other costs or be unable to obtain additional financing necessary to conduct development of its products; Cytokinetics may be unable to enter into future collaboration agreements for its drug candidates and programs on acceptable terms, if at all; standards of care may change, rendering Cytokinetics' drug candidates obsolete; competitive products or alternative therapies may be developed by others for the treatment of indications Cytokinetics' drug candidates and potential drug candidates may target; and risks and uncertainties relating to the timing and receipt of payments from its partners, including milestones and royalties on future potential product sales under Cytokinetics' collaboration agreements with such partners. For further information regarding these and other risks related to Cytokinetics' business, investors should consult Cytokinetics' filings with the Securities and Exchange Commission.

Contact:

Joanna L. Goldstein Manager, Corporate Communications & Marketing (650) 624-3000