Exhibit 8

UNITED STATES DISTRICT COURT
SOUTHERN DISTRICT OF FLORIDA

In Re: JANUARY 2021 SHORT SQUEEZE TRADING LITIGATION	Case No. 21-2989-MDL-ALTONAGA/Damian

This Document Relates to: All Actions Concerning the Federal Securities Laws

DECLARATION OF DR. ADAM WERNER

TABLE OF CONTENTS

I. INTRODUCTION 1
II. PROFESSIONAL BACKGROUND AND EXPERIENCE 2
III. SUMMARY OF OPINIONS AND FINDINGS 3
IV. BACKGROUND 5
A. About Robinhood Markets, Inc. ("Robinhood") 5
B. About the Affected Companies 6
1. AMC 6
2. BB 6
3. BBBY 7
4. EXPR 7
5. GME 8
6. KOSS 8
7. TR 8
8. NOK 9
9. TRVG 9
V. EFFICIENCY OF THE MARKET FOR AFFECTED COMPANIES' SECURITIES 10
A. Market Efficiency in Finance Academia and Economic Theory 10
B. The Legal Foundation and Application of Market Efficiency 12
C. The *Cammer* Factors and Their Application in This Case 14
1. Cammer Factor 1: Average Weekly Trading Volume 14
2. Cammer Factor 2: Analyst Coverage 15
3. Cammer Factor 3: Market Makers and Listing on the NYSE or NASDAQ 17
4. Cammer Factor 4: SEC Form S-3/F-3 Eligibility 20
5. Cammer Factor 5: Price Reaction to New Information 22
D. The *Unger/Krogman* Factors Considered 34
1. Market Capitalization 34
2. Float 36
3. Bid-Ask Spread 36
VI. COMMON DAMAGE METHODOLOGY 38
A. Sections 9(a)(2) and 10(b) Damages Methodology 38

VII. CONCLUSION.....41
VIII. APPENDIX-A.....42
IX. APPENDIX-B.....44
X. LIMITING FACTORS AND OTHER ASSUMPTIONS.....46

I, Adam Werner, declare and state, under penalty of perjury, that the following is true and correct to the best of my knowledge, information, and belief. If called to testify, I could and would testify competently to the following facts.

I. INTRODUCTION

1. I was asked by The Rosen Law Firm, counsel for the Plaintiffs, to determine whether the common stock of AMC Entertainment Holdings, Inc. ("AMC"), Bed Bath & Beyond Inc. ("BBBY"), BlackBerry Limited ("BB"), Express, Inc. ("EXPR"), GameStop Corp. ("GME"), Koss Corporation ("KOSS"), Tootsie Roll Industries, Inc. ("TR"), and the American Depositary Shares of foreign-issuers Nokia Corporation ("NOK") and trivago N.V. ("TRVG") (collectively the "Affected Companies" or "Affected Stocks") traded in efficient markets prior to the Class Period. To this end, I assess whether the Affected Companies' securities traded in efficient markets during the period from January 28, 2020 through January 27, 2021, inclusive (the "Relevant Period").[1]

2. In addition, I have been asked to opine on whether damages in this matter are subject to a common methodology that can be calculated on a class-wide basis for all Class members in connection with their claims under Sections 9(a)(2) and 10(b) of the Securities Exchange Act of 1934 (the "Exchange Act") and U.S. Securities & Exchange Commission ("SEC") Rule 10b-5 adopted thereunder.

[1] Due to the short length of the Class Period, and the allegations of market manipulation that occurred during the Class Period, I examined market efficiency for the one-year period prior to the Class Period. I chose to examine a one-year period so that any inferences made on data would be based on an adequately large sample size. I chose to focus this one-year period on the year prior to the Class Period as this is the period that has not yet been affected by the alleged market manipulation.

3. I understand that as an expert witness in this proceeding, my duty in providing my declaration is to the Court and that this duty overrides any obligation to the parties who have engaged me, from whom I have received instructions or compensation. I confirm that I have complied with this duty.

II. PROFESSIONAL BACKGROUND AND EXPERIENCE

4. I am currently a Lecturer in economics at the Orfalea College of Business at California Polytechnic State University San Luis Obispo (Cal Poly) where I have taught managerial economics to graduate students, and international finance, macroeconomics and intermediate microeconomics to undergraduates. I am also an affiliated expert at Crowninshield Financial Research, Inc. ("Crowninshield"). Prior to accepting my lecturer position at Cal Poly and being affiliated with Crowninshield, I spent 16 years working for consulting firms including Cornerstone Research, CRA International, and NERA. I have been retained by both plaintiffs and defendants to consult on matters pertaining to market efficiency, materiality, loss causation and damages, investment banking, financial valuation, security issuance, bankruptcy, and options backdating. My expert opinions have been accepted in Federal, State, and Bankruptcy courts within the United States as well as courts in Australia and Canada. I have lectured frequently to attorneys on the topic of damage estimation and settlements in securities class actions. I have also spoken on the estimation of capital rates in emerging economies at a conference organized by the University of Texas School of Law.

5. I hold a Ph.D. in Finance (1999) from Northwestern University's Kellogg Graduate School of Management. While at Kellogg, I taught M.B.A. classes in corporate finance, and futures and options. I was also awarded a University Scholarship during my time at Kellogg. Prior to graduate school, I served as a Research Assistant at the Federal Reserve Bank of Cleveland. My full Vitae including prior testimony is attached as Exhibit-1 to this declaration.

6. A list of documents I reviewed in forming my opinion in this matter is set forth in Exhibit-2 to this declaration.

7. Crowninshield is currently being compensated at $750 per hour for my ongoing work on this matter. Additional Crowninshield consultants have assisted me with my work at rates ranging from $250 per hour to $500 per hour. This compensation is not contingent on the outcome of this matter.

III. SUMMARY OF OPINIONS AND FINDINGS

OPINION 1: Seven of the nine Affected Companies traded in an efficient market during the Relevant Period. These seven companies are: AMC, BB, BBBY, EXPR, GME, NOK, and TRVG.

8. My opinions with respect to the seven companies are based on the following observations, analyses, and /findings from the Relevant Period, set forth in detail below:

a. The average weekly trading volume of all seven companies as a percentage of shares outstanding was higher than the 2% required to meet the strong-presumption-of-efficiency benchmark set forth by the court in *Cammer v. Bloom*;[2]

b. Seven or more securities analysts followed each of the seven companies and there were a multitude of news stories, and press releases published about, and SEC filings published by, each company;

c. All seven companies traded on either the NYSE or the NASDAQ, and each had numerous market makers;

d. Shares of all seven companies were owned by institutional investors;

[2] *Cammer* v. *Bloom*, 711 F. Supp. 1264 (D.N.J. 1989).

e. All seven companies were either eligible to file a Form S-3 Registration Statement (a Form F-3 Registration Statement for foreign issuers Nokia and trivago), with the SEC or did file a Form S-3 Registration Statement;

f. Empirical analyses that study the relationship between information flow and security price movements demonstrate that a cause-and-effect relationship existed between news flow and movements in the security price of the seven companies;

g. All seven companies had market capitalizations of at least $100 million;

h. All seven companies had float capitalizations of at least $75 million;

i. A review of data obtained from the Center for Research in Securities Prices ("CRSP") indicated that the bid-ask spreads for six of the seven companies were narrower than market average bid-ask spreads.[3]

Table-1: Summary of *Cammer & Krogman* Factors

	Affected Companies								
***Cammer/Krogman* Factor**	**AMC**	**BB**	**BBBY**	**EXPR**	**GME**	**KOSS**	**NOK**	**TR**	**TRVG**
Trading Volume	✓	✓	✓	✓	✓	✓	✓	✓	✓
Analyst Coverage	✓	✓	✓	✓	✓	✗	✓	✗	✓
Market Makers	✓	✓	✓	✓	✓	✓	✓	✓	✓
S-3/F-3 Registration	✓	✓	✓	✓	✓	✗	✓	✓	✓
Empirical Demonstration	✓	✓	✓	✓	✓	✓	✓	✗	✓
Market Capitalization	✓	✓	✓	✓	✓	✗	✓	✓	✓
Float	✓	✓	✓	✓	✓	✗	✓	✓	✓
Bid-Ask Spread	✓	✓	✓	✓	✓	✗	✓	✓	✗

Notes:
[1] "✓" indicates that the Affected Company satisfied the associated *Cammer/Krogman* factor.
[1] "✗" indicates that the Affected Company did not satisfy the associated *Cammer/Krogman* factor

[3] The Center for Research in Security Prices is a widely-used and generally accepted database for obtaining daily data on publicly-traded securities.

OPINION 2: With expert assistance, the finder of fact in this matter will be able to compute damages using a common class-wide methodology that applies to the calculation of damages for each and every Class member.

IV. BACKGROUND

A. About Robinhood Markets, Inc. ("Robinhood")

9. Founded in 2013, Robinhood is a digital trading platform designed to be accessible for any type of customer.[4] Since its founding, Robinhood has marketed itself through its mission statement of "democratizing finance for all."[5] According to the Company, its trading platform allows its customers to "invest commission-free in U.S.-listed stocks and exchange-traded funds ('ETFs'), as well as related options and American Depository Receipts — all from their smartphones."[6] Robinhood's trading platform also allows for transactions in Cryptocurrencies.[7] Robinhood claimed that it aimed to "grow with our customers over time as they build their wealth, and create new and innovative products that are relevant to new and existing customers."[8]

10. Plaintiffs allege that, from January 28, 2021, through and including February 4, 2021 (the "Class Period"), Robinhood manipulated the prices of the Affected Stocks by engaging

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[4] Robinhood Markets, Inc., Form 10-K for the fiscal Year ended December 31, 2021, filed February 24, 2022, p.5.

[5] Robinhood Markets, Inc., Form 10-K for the fiscal Year ended December 31, 2021, filed February 24, 2022, p.5.

[6] Robinhood Markets, Inc., Form 10-K for the fiscal Year ended December 31, 2021, filed February 24, 2022, p.6.

[7] Robinhood Markets, Inc., Form 10-K for the fiscal Year ended December 31, 2021, filed February 24, 2022, p.7.

[8] Robinhood Markets, Inc., Form 10-K for the fiscal Year ended December 31, 2021, filed February 24, 2022, p.10.

in conduct that artificially distorted the markets' supply and demand for these shares over six trading sessions.[9]

B. About the Affected Companies

11. The Affected Companies are all familiar brand names in retail, entertainment, and consumer services, well-known to American consumers.

1. AMC

12. Founded in 1920, AMC Entertainment Holdings owns and operates movie theaters in the U.S. and Europe through its subsidiaries, such as American Multi-Cinema, Inc.[10] AMC's stock price at the close of trading on January 27, 2021, was $19.90 per share. By the close of trading on February 4, 2021, AMC stock had fallen to $7.09 per share, a decline of 64.37% from the close of trading on January 27, 2021.[11]

2. BB

13. BlackBerry Limited was founded in 1984 and offers a range of products and services designed to help customers manage and secure their endpoints, including devices, applications, and data.[12] The company also provides services such as professional services, cybersecurity consulting, and training to help customers implement and optimize their security solutions.[13] At the close of trading on January 27, 2021, the price of BB stock was $25.10 per

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[9] Complaint, ¶6.

[10] AMC Entertainment Holdings, Inc., Form 10-K for the fiscal year ended December 31, 2020, filed December 4, 2020, p. 5.

[11] Share data obtained from CRSP.

[12] BlackBerry Limited, Form 10-K for the fiscal year ended February 28, 2021, filed March 31, 2021, p.4.

[13] BlackBerry Limited, Form 10-K for the fiscal year ended February 28, 2021, filed March 31, 2021, pp.4-6.

share. By the close of trading on February 4, 2021, BB stock had fallen to $12.15 per share, a decline of 51.59% from the close of trading on January 27, 2021.[14]

3. BBBY

14. Bed Bath & Beyond is an "omnichannel retailer" that sells a wide variety of merchandise in categories such as "bedding, bath, kitchen food prep, home organization, indoor décor, baby and personal care."[15] At the close of trading on January 27, 2021, the price of BBBY was $52.89 per share. By the close of trading on February 4, 2021, BBBY stock had fallen to $27.01 per share by February 4, 2021, a decline of 48.93% from the close of trading on January 27, 2021.[16]

4. EXPR

15. Express, Inc. was founded in 1980 and is a fashion retailer for women's and men's clothing.[17] Express operates stores in multiple countries, offering a wide selection of fashion apparel, accessories, and personal care items.[18] At the close of trading on January 27, 2021, the price of EXPR stock was $9.55 per share. By the close of trading on February 4, 2021, EXPR stock had fallen to $3.28 per share, a decline of 65.65% from the close of trading on January 27, 2021.[19]

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[14] Share data obtained from CRSP.

[15] Bed Bath & Beyond Inc., Form 10-K for the fiscal year ended February 27, 2021, filed April 22, 2021, p.4.

[16] Share data obtained from CRSP.

[17] Express, Inc., Form 10-K for the fiscal year ended January 30, 2021, filed March 25, 2021, p.5.

[18] Express, Inc., Form 10-K for the fiscal year ended January 30, 2021, filed March 25, 2021, p.5.

[19] Share data obtained from CRSP.

5. GME

16. GameStop is a retailer of video games and accessories, software, and collectibles.[20] At the close of trading on January 27, 2021, the price of GME stock was $347.51 per share. By the close of trading on February 4, 2021, GME stock had fallen to $53.50 per share, a decline of 84.60% from the close of trading on January 27, 2021.[21]

6. KOSS

17. Koss Corporation was founded in 1971 and is a designer and manufacturer of high-fidelity stereo headphones and related accessories.[22] At the close of trading on January 27, 2021, Koss' stock price was $58.00 per share. By the close of trading on February 4, 2021, KOSS stock had fallen to $18.80 per share, a decline of 67.59% from the close of trading on January 27, 2021.[23]

7. TR

18. Tootsie Roll Industries, Inc. was founded in 1896 and is a manufacturer and seller of confectionery, or candy, products.[24] At the close of trading on January 27, 2021, TR's stock

[20] GameStop Corp., Form 10-K for the fiscal year ended January 30, 2021, filed March 23, 2021, pp.1-2.

[21] Share data obtained from CRSP.

[22] Koss Corporation, Form 10-K for the fiscal year ended June 30, 2020, filed August 27, 2020, p.1.

[23] Share data obtained from CRSP.

[24] Tootsie Roll Industries, Inc., Form 10-K for the fiscal year ended December 31, 2020, filed March 1, 2021, p.3.

price was $42.85 per share. By the close of trading on February 4, 2021, TR stock had fallen to $31.42 per share, a decline of 26.67% from the close of trading on January 27, 2021.[25]

8. NOK

19. Nokia Corporation was founded in 1865 and is a provider of technology and services for telecommunications networks, as well as a provider of advanced technology development and licensing.[26] At the close of trading on January 27, 2021, the price of the NOK ADS was $6.55 per share. By the close of trading on February 4, 2021, the price of the NOK ADS had fallen to $4.37 per share, a decline of 33.28% from the close of trading on January 27, 2021.[27]

9. TRVG

20. Trivago N.V. was founded in Germany in 2005 and is a global "hotel and accommodation search platform," providing customers with a range of accommodations options and information to help them find and book hotels.[28] At the close of trading on January 27, 2021, the price of TRVG ADS was $3.19 per share. By the close of trading on February 4, 2021, the price of TRVG ADS had fallen to $2.40 per share, a decline of 24.76% from the close of trading on January 27, 2021.[29]

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[25] Share data obtained from CRSP.

[26] Nokia Corporation, Form 20-F for the fiscal year ended December 31, 2020, filed March 4, 2021, pp.23-32.

[27] Share data obtained from CRSP.

[28] Trivago N.V., Form 20-F for the fiscal year ended December 31, 2020, filed March 5, 2021, p.36.

[29] Share data obtained from CRSP.

V. EFFICIENCY OF THE MARKET FOR AFFECTED COMPANIES' SECURITIES

A. Market Efficiency in Finance Academia and Economic Theory

21. The efficient market hypothesis is the foundation of modern finance theory. In essence, a security trades in an efficient market when all publicly available information is incorporated in the security price and any new information that impacts the economic outlook of the firm gets quickly reflected in its security price. In over 50 years' worth of academic articles, financial economists have used event study analysis to evaluate market efficiency by examining how new information affects securities prices.[30] Event studies are a set of analytical methods used to measure the response of security prices to typical corporate news events such as earnings releases, merger announcements, guidance revisions, etc., after controlling for, among other things, market-wide factors. Campbell *et al.* [1997] provide a detailed description of the methodology and document its wide use in academic research.[31]

22. Additionally, event studies have been utilized in securities class actions to assess loss causation and damages by analyzing artificial inflation.[32] Gold *et al*. [2017] write that financial economists generally accept and widely use the methodology in such forensic applications.[33]

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[30] *See*, *e.g.*, "The Event Study Methodology Since 1969," by John J. Binder, *Review of Quantitative Finance and Accounting*, Vol. 11, 1998, pp. 111-137.

[31] "Event-Study Analysis," by John Campbell et al., Chapter 4 of *The Econometrics of Financial Markets*, Princeton University Press, 1997.

[32] *See*, *e.g.*, "Materiality and Magnitude: Event Studies in the Courtroom," by David I. Tabak and Frederick C. Dunbar, Chapter 19 of the *Litigation Services Handbook: The Role of the Financial Expert*, 3rd Edition, edited by Roman L. Weil et al., John Wiley & Sons, Inc., 2001.

[33] "Federal Securities Acts and Areas of Expert Analysis," by Kevin Gold et al., Chapter 27 of the *Litigation Services Handbook*: *The Role of the Financial Expert*, 6th Edition, edited by Roman L. Weil et al., John Wiley & Sons, Inc., 2017.

23. While financial economists rely on event study analysis as direct evidence demonstrating security price response to new information, they accept other factors as tending to support the existence of an efficient market for a security. For example, financial economists have argued that trading volume is correlated with a market's efficiency such that the higher the trading volume, the more likely it is to be efficient.[34]

24. Financial economists also believe that the number of analysts that follow a company is related to the market efficiency of the company's security. This is based on the theory that:

> [a]nalysts gather and independently generate information about companies and disseminate such information to their clients (e.g., in the form of earnings forecasts and recommendations). Accordingly, it can be expected that the larger the number of analysts following a security, the more efficiently it is traded.[35]

25. Put another way, the more analysts covering a security, the more likely it is that the market for that security will timely incorporate new information in that security's price.

26. Similarly, financial economists have considered the market value of a firm and its relationship with market efficiency.[36] Larger companies tend to attract more analyst and news media coverage and gain the attention of a greater number of investors. All these characteristics,

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[34] *See*, *e.g.*, "The Fraud-on-the-Market Theory and the Indicators of Common Stocks' Efficiency," by Brad M. Barber et al., *The Journal of Corporation Law*, 1994, p. 291.

[35] "The Fraud-on-the-Market Theory and the Indicators of Common Stocks' Efficiency," by Brad M. Barber et al., *The Journal of Corporation Law*, 1994, p. 292.

[36] *See*, *e.g.*, "The Cross-Section of Expected Stock Returns," by Eugene F. Fama and Kenneth R. French, *The Journal of Finance*, Vol. 47, No. 2, 1992, pp. 427-465 (discussing how the role of size explains returns).

which accompany a large market capitalization, promote, and therefore tend to support, market efficiency.

27. A narrow bid-ask spread[37] of a particular security is also often associated with efficiency. In academia, a security's bid-ask spread is frequently used as a measure of liquidity[38] or cost of trading.[39] All things equal, a narrower bid-ask spread implies that there is a sufficient demand for and supply of an asset—the number of investors willing to buy or sell a security. Thus, the cost of executing a trade is low. A lower cost of trading implies that there are fewer impediments for investors to trade on new information.

B. The Legal Foundation and Application of Market Efficiency

28. In *Cammer v. Bloom*, 711 F. Supp. 1264 (D.N.J. 1989) ("*Cammer*"), the seminal decision on demonstrating market efficiency, the court's definition of efficiency was generally consistent with how financial economists and the academic community define efficiency.[40] The *Cammer* court then related efficiency to the reliance element of securities fraud claims and the applicability of the fraud-on-the-market doctrine, stating:

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[37] The bid-ask spread is the amount by which the ask price (the lowest price that a seller is willing to accept) for a share of a security exceeds the bid price (the highest price that a buyer is willing to pay).

[38] Liquidity refers to the degree to which investors can buy and sell a security in the market without affecting the price.

[39] See, e.g., *Trading & Exchanges*: Market Microstructure for Practitioners, by Larry Harris, Oxford University Press, 2003, pp. 420-441.

[40] *Cammer*, 711 F. Supp. at 1276, n. 17 (quoting *Securities Fraud and Commodities Fraud*, by Alan Bromberg & Lewis Lowenfels, §8.6 (Aug. 1988)) ("An efficient market is one which rapidly reflects new information in price.")); *id*. at 1280, n. 25 (quoting "Efficient Capital Markets: A Review of Theory and Empirical Work," by Eugene F. Fama, *The Journal of Finance*, Vol. 25, No. 2, 1970) ("A market in which prices always 'fully reflect' available information is called 'efficient'").

> [a]s relevant here, courts have permitted a rebuttable presumption of reliance in the case of securities traded in 'efficient markets' (*i.e.*, markets which are so active and followed that material information disclosed by a company is expected to be reflected in the stock price).[41]

29. Just one year earlier, the United States Supreme Court confirmed its understanding of the efficient market theory focusing on the same fundamental characteristic of market efficiency in the context of the availability of the fraud-on-the-market doctrine for establishing the reliance element of a securities fraud claim stating:

> The fraud on the market theory is based on the hypothesis that, in an open and developed securities market, the price of a company's stock is determined by the available material information regarding the company and its business …[42]

30. In advance of laying out a number of criteria that courts should examine in determining market efficiency, the *Cammer* court credited securities law experts such as Bromberg and Lowenfels. The *Cammer* court explicitly acknowledged the importance of a listing on a developed exchange and the implications of such a listing for market efficiency:

> We think that, at a minimum, there should be a presumption – probably conditional for class determination – that certain markets are developed and efficient for virtually all the securities traded there: the New York and American Stock Exchanges, the Chicago Board Options Exchange and the NASDAQ National Market System.[43]

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[41] *Cammer*, 711 F. Supp. at 1273, n. 11.

[42] *Basic, Inc. v. Levinson*, 485 U.S. 224, 241 (1988); and *Amgen Inc. v. Conn. Ret. Plans & Trust Funds*, 568 U.S. 455, 458 (2013) ("[t]he fraud-on-the market premise is that the price of a security traded in an efficient market will reflect all publicly available information about a company . . .").

[43] *Cammer,* 711 F. Supp. at 1292.

C. The *Cammer* Factors and Their Application in This Case

31. The *Cammer* court applied five factors to determine market efficiency.[44] Widely-accepted academic finance literature provides the economic basis for these factors as indicia of market efficiency. The five factors considered are (i) a security's average weekly trading volume; (ii) analyst coverage; (iii) number of market makers; (iv) eligibility to file an SEC Form S-3; and (v) price reaction to new information.

1. Cammer Factor 1: Average Weekly Trading Volume

32. The first *Cammer* factor examines whether a security's "average weekly trading volume … [would be] in excess of a certain number of shares."[45] More specifically, the court credited Bromberg who recognized that "turnover measured by average weekly trading of 2% or more of the outstanding shares would justify a strong presumption that the market for the security is an efficient one; 1% would justify a substantial presumption."[46]

33. For the Affected Companies, Table-2 below shows the average weekly trading volume, the average weekly trading volume as a percentage of their stock outstanding, and the *Cammer* benchmark that was satisfied, if any.

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[44] *Cammer,* 711 F. Supp. at 1286-87.

[45] *Cammer,* 711 F. Supp. at 1286 ("the reason the existence of an actively traded market, as evidenced by a large weekly volume of stock trades, suggests there is an efficient market is because it implies significant investor interest …. Such interest, in turn, implies a likelihood that many investors are executing trades on the basis of newly available or disseminated corporate information").

[46] *Cammer,* 711 F. Supp. at 1293.

Table-2: Weekly Trading Volumes During the Relevant Period

Affected Company	Average Weekly Trading Volume (Shares)	Average Weely Trading Volume as a % of Shares Outstanding	Passes 1% Benchmark?	Passes 2% Benchmark?
AMC	115,519,246	112.3%	Yes	Yes
BB	70,040,916	12.5%	Yes	Yes
BBBY	59,306,423	47.3%	Yes	Yes
EXPR	30,622,930	47.3%	Yes	Yes
GME	52,319,732	77.6%	Yes	Yes
KOSS	1,863,512	24.7%	Yes	Yes
NOK	186,003,876	25.2%	Yes	Yes
TR	1,143,380	2.9%	Yes	Yes
TRVG	3,789,684	6.9%	Yes	Yes

Sources: CRSP and SEC filings of Affected Companies.

34. For all Affected Companies, the level of average weekly trading volume exceeds the *Cammer* benchmark of 2% necessary for a "strong presumption" of market efficiency and exceeds the benchmark of 1% necessary for a "substantial presumption" of market efficiency.[47] Thus, one can make a strong presumption of market efficiency during the Relevant Period for all the Affected Companies based on average trading volume.

2. Cammer Factor 2: Analyst Coverage

35. The *Cammer* Court found that "it would be persuasive [if] a significant number of securities analysts followed and reported on a company's stock."[48] If investment professionals were closely monitoring a firm's information and subsequently making buy/sell recommendations to their clients based on that information, "the market price of the stock would be bid up or down

[47] Volume data obtained from CRSP.

[48] *Cammer,* 711 F. Supp. at 1286.

to reflect the [company's] financial information…as interpreted by the securities analysts."[49] This suggests that the more analysts who followed a security, the greater the likelihood that a security traded in an efficient market. Barber *et al.* [1994] found that coverage by one or two analysts strengthened the presumption of efficiency for a publicly traded stock.[50]

36. For all Affected Companies, Table-3 below shows the number of analyst firms that followed each company during the Relevant Period.

Table-3: Analyst Coverage During the Relevant Period

Affected Company	Analyst Firms Count	Possessed Analyst Coverage?
AMC	12	Yes
BB	13	Yes
BBBY	20	Yes
EXPR	7	Yes
GME	13	Yes
KOSS	-	No
NOK	37	Yes
TR	-	No
TRVG	13	Yes

Source: Refinitiv.

37. The various avenues of news media coverage also facilitate the flow of material information to the marketplace, which promotes efficiency. Such avenues of information dissemination include company press releases.[51] For all Affected Companies, Table-4 below shows the number of news articles published for each company during the Relevant Period.

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[49] *Cammer,* 711 F. Supp. at 1286.

[50] "The Fraud-on-the-Market Theory and the Indicators of Common Stocks' Efficiency," by Brad M. Barber et al., *The Journal of Corporation Law*, 1994.

[51] *See, e.g., Cammer*, 711 F. Supp at 1283, n. 30, citing that the company "issued numerous press releases concerning its business operations …."

Table-4: News Coverage During the Relevant Period

Affected Company	News Articles Count	Possessed News Coverage?
AMC	2,081	Yes
BB	999	Yes
BBBY	2,210	Yes
EXPR	332	Yes
GME	1,380	Yes
KOSS	112	Yes
NOK	6,955	Yes
TR	35	Yes
TRVG	213	Yes

Source: Factiva.

38. For all Affected Companies, except KOSS and TR, the analyst coverage supports a finding of market efficiency. In addition, with the exception of Tootsie Roll and Koss, the dissemination of information about these companies from company press releases and from the news media supports a finding of market efficiency.

3. Cammer Factor 3: Market Makers and Listing on the NYSE or NASDAQ

39. The third factor considered by the *Cammer* court to indicate market efficiency is that a security had numerous market makers.[52] Specifically, the *Cammer* court stated, "the existence of market makers and arbitrageurs would ensure completion of the market mechanism; these individuals would react swiftly to company news and reported financial results by buying or selling stock and driving it to a changed price level."[53]

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[52] *See, e.g.,* "The Fraud-on-the-Market Theory and The Indicators of Common Stocks' Efficiency," by Brad M. Barber et al., *The Journal of Corporation Law*, 1994, p. 291.

[53] *Cammer*, 711 F. Supp. at 1286-1287.

40. As the name suggests, "market makers" are financial intermediaries who trade in a particular security, standing ready to buy and sell with individual investors, institutions, and other market makers. A large number of market makers implies that many market participants are trading that particular stock, which generally provides a high degree of liquidity and lower transaction costs. For this reason, a large number of market makers for a particular security supports a finding of market efficiency.

41. Market making data from Bloomberg is available on a monthly basis. For all Affected Companies, Table-5 below shows the number market makers that made a market in each Affected Companies' security during the Relevant Period and the exchange each Affected Company traded on.

Table-5: Market Makers During the Relevant Period

Affected Company	Exchange	Market Maker Count	Possessed More Than Ten Market Makers?
AMC	NYSE	95	Yes
BB	NYSE	74	Yes
BBBY	NASDAQ	117	Yes
EXPR	NYSE	72	Yes
GME	NYSE	98	Yes
KOSS	NASDAQ	51	Yes
NOK	NYSE	95	Yes
TR	NYSE	62	Yes
TRVG	NASDAQ	74	Yes

Source: Bloomberg.

42. Citing Bromberg and Lowenfels, the *Cammer* court noted that "[t]en market makers for a security would justify a substantial presumption that the market for the security is an efficient one; five market makers would justify a more modest presumption."[54] All Affected Companies

[54] *Cammer*, 711 F. Supp at 1293 (quoting Bromberg & Lowenfels, Securities Fraud and Commodities Fraud §8.6 (1988))

satisfied the *Cammer* benchmark of at least ten market makers required for a "substantial presumption" of market efficiency. Furthermore, as the *Cammer* court considered market-making infrastructure as indicative of the efficiency of a security's market, that a stock trades on either the NYSE or NASDAQ further supports a finding of market efficiency because these exchanges are some of the most renowned, most liquid, and most efficient stock trading forums in the world.

43. The *Cammer* court explicitly acknowledged the importance of either a NASDAQ or NYSE listing and the implications of such a listing for market efficiency, explaining that market efficiency can reasonably be presumed for securities traded on these markets.

> "We think that, at a minimum, there should be a presumption – probably conditional for class determination – that certain markets are developed and efficient for virtually all the securities traded there: the New York and American Stock Exchanges, the Chicago Board Options Exchange and the NASDAQ National Market System."[55]

44. As shown in Table-5 above, all Affected Companies traded on either the NYSE or NASDAQ exchanges.

45. A related indication of market efficiency is the presence of institutional investors – sophisticated and professional full-time investors – in the market, as economists presume them "to be better informed about the securities they hold and better able to interpret new information than individual investors."[56]

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[55] *Cammer*, 711 F. Supp. at 1292 (quoting Bromberg and Lowenfels [1988], §8.6).

[56] "The Fraud-On-The-Market Theory and The Indicators of Common Stocks' Efficiency," by Brad M. Barber et al., *The Journal of Corporation Law*, 1994, p. 292. For discussion of the role of institutional investors in incorporating information into equity prices, *see*, *e.g.*, "The Influence of Analysts, Institutional Investors, and Insiders on the Incorporation of Market, Industry, and Firm-Specific Information into Stock Prices," by Joseph D. Piotroski and Darren T. Roulstone, *The Accounting Review*, vol. 79, no. 4, 2004, pp. 1119-1151.

46. For all Affected Companies, Table-6 below shows the number of unique institutional investors that held each company's security during the Relevant Period.

Table-6: Institutional Holdings During the Relevant Period

Affected Company	Unique Institutional Investors	Held By Institutions?
AMC	338	Yes
BB	552	Yes
BBBY	603	Yes
EXPR	211	Yes
GME	430	Yes
KOSS	23	Yes
NOK	753	Yes
TR	355	Yes
TRVG	66	Yes

Sources: Refinitiv SEC filings of Affected Companies.

47. All Affected Companies were held by institutional investors during the Relevant Period. That the Affected Companies all possessed numerous market makers, traded on major stock exchanges, and were held by sophisticated professional investors supports a finding these companies traded in an efficient market during the Relevant Period.

4. Cammer Factor 4: SEC Form S-3/F-3 Eligibility

48. The fourth *Cammer* factor is a firm's ability to file a Form S-3 Registration Statement, or for foreign issuers, a Form F-3 Registration Statement. For a company to be eligible to file a Form S-3, which is simplified compared to a Form S-1 Registration Statement, the SEC requires 12 months of filings and at least $75 million of float. A company with less than $75 million of float and 12 months of filings is eligible to file a Form S-3/F-3 registration so long as the company has "a class of common equity securities listed and registered on a national securities exchange, and the issuers do not sell more than the equivalent of one-third of their public float in

primary offerings over any period of 12 calendar months."[57] Despite the fact that the SEC has loosened the $75 million float requirement, courts continue to focus on the $75 million float benchmark when analyzing this *Cammer* factor.[58]

49. The *Cammer* court noted that Form S-3 Registration Statement eligibility is indicative of market efficiency because the filing requirement ensured that financial data are available to market participants, and the public float requirement indicated that many market participants would have examined the information.[59]

> Proposed Form S-3 recognizes the applicability of the efficient market theory to the registration statement framework with respect to those registrants which usually provide high quality corporate reports, including Exchange Act reports, and whose corporate information is broadly disseminated, because such companies are widely followed by professional analysts and investors in the market place. Because of the foregoing observations made by the SEC, the existence of Form S-3 status is an important factor weighing in favor of a finding that a market is efficient.[60]
>
> The 'public float' aspect of the Form S-3 requirements ensures that enough investors have in fact read the previously filed document.[61]
>
> Again, it is the number of shares traded and value of shares outstanding that involve the facts which imply efficiency.[62]

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[57] "Revisions to The Eligibility Requirements for Primary Securities Offerings on Forms S-3 And F-3," SEC Release No. 33-8878, December 19, 2007.

[58] *See*, *e.g.*, *Nguyen v. Radient Pharm. Corp.*, 287 F.R.D. 563, 573 (C.D. Cal. 2012).

[59] *Cammer*, 711 F. Supp. at 1284-85.

[60] *Cammer*, 711 F. Supp. at 1284-85.

[61] *Cammer*, 711 F. Supp. at 1285.

[62] *Cammer*, 711 F. Supp. at 1287.

50. For all Affected Companies, Table-7 below presents each company's average float, whether it had consistently filed its SEC filings for at least 12 months, and whether a S-3/F-3 registration was filed during the Relevant Period.

Table-7: S-3 Eligibility During the Relevant Period

Affected Company	Filed S-3 or F-3?	Average Float ($)[1]	Exceeds $75 Million Benchmark?	12-Months of Financial Information Available?
AMC	Yes[2]	$281,713,622	Yes	Yes
BB	Yes[3]	$3,012,253,936	Yes	Yes
BBBY	-	$1,657,707,529	Yes	Yes
EXPR	-	$106,350,091	Yes	Yes
GME	Yes[4]	$714,876,656	Yes	Yes
KOSS	-	$3,513,589	No	Yes
NOK	-	$2,927,413,519	Yes	Yes
TR	-	$535,775,739	Yes	Yes
TRVG	-	$92,411,914	Yes	Yes

Source: Refinitiv.
[1] The daily number of shares in float is calculated as: shares outstanding *less* shares held by insiders. Float capitalization is calculated as: shares in float *multiplied by* daily closing prices.
[2] AMC filed S-3 registration statements on: 8/28/2020, 9/2/2020, 11/2/2020, 12/3/2020, and 12/30/2020.
[3] BB filed S-3 registration statements on: 2/21/2020 and 2/24/2020.
[4] GME filed an S-3 registration statement on: 12/8/2020.

51. With the exception of KOSS, all Affected Companies either did file a Form S-3 Registration Statement during the Relevant Period or were eligible to file a Form S-3/F-3 and thus possessed the characteristics associated with market efficiency for this *Cammer* factor.

5. Cammer Factor 5: Price Reaction to New Information

52. The fifth factor cited in *Cammer* suggests "it would be helpful to . . . [have] empirical facts showing a cause-and-effect relationship between unexpected corporate events or

financial releases and an immediate response in the stock price."[63] To demonstrate this cause-and-effect relationship, I conducted collective event study tests investigating whether the market for each of the nine Affected Companies' common stock was efficient. As indicated above, the event study is the preeminent tool for testing market efficiency. Professor Fama states that:

> The cleanest evidence on market-efficiency comes from event studies, especially event studies on daily returns. When an information event can be dated precisely and the event has a large effect on prices, the way one abstracts from expected returns to measure abnormal daily returns is a second-order consideration. As a result, event studies can give a clear picture of the speed of adjustment of prices to information.[64]

53. Since the seminal papers by Ball and Brown [1968] and Fama *et al*. [1969] first introduced event study analysis to a broader audience of accounting and finance researchers, event studies have "become ubiquitous in capital markets research."[65] Campbell *et al*. [1997] provide a detailed background and description of how event studies are used in econometric analysis.[66] Gold *et al*. [2017] write about how the methodology is generally accepted and widely used in forensic applications.[67]

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[63] *Cammer,* 711 F. Supp. at 1287.

[64] "Efficient Capital Markets: II," by Eugene F. Fama, *The Journal of Finance*, Vol. 46, No. 5, 1991, p. 1607.

[65] "Event Studies: A Methodology Review," by Charles J. Corrado, *Accounting and Finance*, Vol. 51, 2011, p. 207.

[66] "Event-Study Analysis," by John Campbell et al., Chapter 4 of *The Econometrics of Financial Markets*, Princeton University Press, 1997.

[67] "Federal Securities Acts and Areas of Expert Analysis," by Kevin Gold et al., Chapter 27 of the *Litigation Services Handbook: The Role of the Financial Expert*, 6th Edition, edited by Roman L. Weil et al., John Wiley & Sons, Inc., 2017.

54. In such an application, an event study can measure how much a firm's security price rises or falls in response to new information. An event study first calculates the difference between the actual return on an individual security and the return predicted by the market model. This difference is called an "abnormal return" (or residual return). It measures the impact of new, firm-specific information on a firm's security price. If the abnormal return over an event period is deemed to be statistically significant, it indicates that the security price movement was likely caused by firm-specific information and therefore cannot be attributed to market and/or industry factors, or to random volatility alone. Indeed, a cause-and-effect relationship between information flow and reactions in the security price establishes market efficiency.

55. Not every piece of new information will result in a statistically significant abnormal security return. To the extent that the new information may have been expected, or the valuation impact of the new information is modest, the appropriate abnormal price return should be statistically insignificant. As such, a finding of non-significance does not necessarily establish inefficiency as a modest non-significant security price reaction may be the appropriate and efficient security price reaction to a particular information event.[68] For example, if a company announces earnings that are in-line with analysts' and investors' expectations, even though the announcement contains important information, it may not change the total mix of information sufficiently enough to elicit a statistically significant security price reaction on that date.

[68] "Event Studies in Securities Litigation: Low Power, Confounding Effects, and Bias," by Alon Brav and J. B. Heaton, *Washington University Law Review*, Vol. 93, No. 2, 2015, p. 602.

a. ***Regression Parameters and Methodology***

(1) **Market Model**

56. A market model is used to determine how much of a company's security return on each event was driven by company-specific information as opposed to market and peer group factors. The market model involves running a regression to determine how the Affected Companies' stock prices typically behaved in relation to the overall stock market and industry-specific factors during the Relevant Period. The regression model is then used to determine how much of each event day's observed security price return can be explained by the market and industry-specific factors (the "expected return" or "explained return"). That is, a market model measures the expected return of the company's security over an event period after controlling for the overall market and industry-specific factors.

57. Next, the abnormal return (or residual return) is computed by subtracting the expected return from the observed security price return. The abnormal return is the return of the company's security after controlling for market effect and industry-specific factors.

58. For each of the Affected Companies, I ran a regression modeling the return of the Affected Companies' common stock prices as a function of 1) a constant term, 2) the returns of the overall stock market, and 3) an industry index return. The regression model is formulaically expressed as follows:

$$Rs_t = \alpha + \beta_1 Rm_t + \beta_2 Ri_t + \epsilon_t$$

Where:

Rs_t= the return of the stock;

Rm_t= the return of the market index;

Ri_t= the daily return of the industry index.

59. The regression model produces a "constant" term ("α") also referred to as an "intercept" term, and one or more slope coefficient, or "beta" ("β"). The betas quantify the sensitivity of a security's return to the return on the market index ("β_1") and industry index ("β_2"). A security with a market index beta of 1.0 is expected to increase (decrease) by one percent for each one percent increase (decrease) in the market index. Similarly, a security with a market beta of 2.0 is expected to increase (decrease) by two percent for each one percent increase (decrease) in the market index.

60. To control for movements in the overall stock market for all Affected Companies, I used the CRSP NYSE/AMEX/NASDAQ/ARCA Market Index ("Market Index"), which is a generally accepted measure of the performance of the overall stock market. The Market Index incorporates payment of dividends by the constituent companies. Appendix-A shows the peer group I selected for each Affected Company for use as an industry index, as well as the methodology I applied to determine that selection.

61. Exhibit-3a to 3i presents the stock prices, trading volumes, and stock price returns for all Affected Companies during the Relevant Period. Exhibit-4 presents the Market Index return for the Relevant Period. Exhibit-5 presents the appropriate Industry Index return for all Affected Companies during the Relevant Period.[69]

62. Prior to running a regression, one must decide on an estimation period over which to measure the relationship between the security at issue and the corresponding market and industry indices. In each instance, I ran the regression over the Relevant Period. In event study

[69] In my regression analysis, I use log returns $R_1 = \ln (P_1/P_0)$ rather than normal returns $R_1 = ((P_1-P_0)/P_0)$ where P_1 = ending stock price and P_0 = beginning stock price, as security returns are considered to be log normally distributed.

analysis, the choice of using the period preceding the event window, here the year prior to Robinhood's challenged actions, as the regression estimation period is a widely used and generally accepted methodology.[70]

63. For each Affected Company, I also used dummy variables in the regression model to control for the potentially abnormal returns on each Affected Company's earnings announcement dates and on January 27, 2021. Using dummy variables to control for potentially atypical observations in the regression estimation period so that the model parameters can better reflect typical stock price dynamics, is a widely used and generally accepted methodology.[71]

64. The results of the regressions for the Affected Companies are summarized in Exhibits-6a to 6i.

(2) ***t*-Test**

65. For each day during the Relevant Period and for each Affected Company, I conducted a statistical test called a *t*-test to determine whether an Affected Companies' abnormal return was statistically significant. If the absolute value of the "*t*-statistic," which is equal to the abnormal return on an event date divided by the standard deviation of all abnormal returns in the regression estimation, is greater than the critical *t*-statistic value of ±1.96, then the security price return is deemed statistically significant. That is, there is less than a 5% chance that the abnormal return was caused by random volatility alone, which is generally accepted to be so unlikely that

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[70] "Three general choices for the placement of an estimation window are before the event window, surrounding the event window, and after the event window." ("Materiality and Magnitude: Event Studies in the Courtroom," by David I. Tabak and Frederick C. Dunbar, Chapter 19 of the *Litigation Services Handbook: The Role of the Financial Expert*, 3rd Edition, edited by Roman L. Weil et al., John Wiley & Sons, Inc., 2001, p. 19.5.)

[71] See, e.g., "Event Studies with a Contaminated Estimation Period," by Nihat Aktas et al., *Journal of Corporate Finance*, vol. 13., 2007; "Testing for Market Efficiency: A Comparison of the Cumulative Average Residual Methodology and Intervention Analysis," by David Larcker et al., *Journal of Financial and Quantitative Analysis*, vol. 15, no. 2, 1980.

the random volatility explanation can be rejected. If a date's abnormal return is deemed to be statistically significant, one can conclude that the security price return was caused by company-specific information, rather than random volatility.

66. Exhibit-7a to Exhibit-7i presents the daily event study results for all Affected Companies.

b. ***Cause-and-Effect Analysis: High Information Flow versus Low Information Flow Days***

67. While *Cammer* does not provide specific tests, indicia, or factors on which the court relied in determining the existence of a cause-and-effect relationship for a security and its incorporation of information, economists perform various tests, utilizing statistical methodologies, that can provide probative quantitative evidence concerning the existence of a cause-and-effect relationship consistent with an efficient market. In order to test this proposition, one must first examine whether or not a stock's price reacts differently on days in which new information is revealed ("news days") versus all other days ("non-news days"). A key component of such a test is defining what is news.

68. In performing a news vs. no-news test, it is important to use an objective filter to identify "news days" in order to remove any potential subjective biases that may impact the results of the test. To remain as objective as reasonably possible, I broadly defined "news days" as any day with news releases about a subject company that can be identified through the news aggregating database, Factiva. Such a broad definition of news is highly objective but produces many "news days" as a result, due to the frequent news coverage of the Affected Companies by news media sources. In order to isolate a test sample of news days that would be more likely than not to contain valuation-relevant information, I focused on the frequency of news releases on each day during the Relevant Period for each Affected Company. The idea that the frequency of news

releases on a particular topic is an indicator of its import has been established in content analysis studies, for example:

> "The *frequency* with which a symbol, idea, reference or topic occurs in a stream of messages is taken to indicate the *importance, of attention to*, or *emphasis on* that symbol, idea, reference, or topic in the messages."[72]

69. Given that a higher number of news releases is linked to a higher likelihood of trading and market activity, in an efficient market, one would expect days with a higher number of news releases to be more likely to exhibit atypical security price movements.

70. To identify days with the highest number of news releases, or "high information flow days", I began with the news articles published during the Relevant Period for each Affected Company that I obtained from Factiva. I then determined the effective trading date that each article was published, a process that utilizes the article publishing dates provided by Factiva for each news article.[73] For each Affected Company, to identify my high information flow and low information flow test groups, I separated the Relevant Period days based on the number of news articles published each day. I established a rank for each day in the Relevant Period according to the number of news articles published each day from the largest number of news articles to the smallest number of news articles. The top 10% of days with the most news articles published were placed in the high information flow group. The remaining 90% of days were placed in the low information flow group. There are 253 days in the Relevant Period. Thus, the 25 days with the

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[72] *Content Analysis: An Introduction to Its Methodology*, by Klaus Krippendorff, 2nd edition, 2004, p. 59 (emphasis in original).

[73] If an article was published on a weekend or non-trading holiday, the effective date of the article was set to the next available trading date.

largest number of new articles published fall within the top 10% and are considered high information flow days. The remaining 228 days are low information flow days. Table-8 below shows the number of high information flow days and lesser information flow days that were identified for each Affected Company

71. In instances where more than one day has an equal number of news days that are ranked as having the 25th largest number of news articles, I placed all such days with the same number of news articles into the high information flow sample. Table 8 below shows that six of the nine Affected Companies have more than one day ranking as the 25th largest news day and so have more than 25 days in the high information flow group.

Table-8: S-3 High/Low Information Flow Days During the Relevant Period

Affected Company	High Information Flow Days	Low Information Flow Days
AMC	25	228
BB	26	227
BBBY	26	227
EXPR	25	228
GME	26	227
KOSS	32	221
NOK	25	228
TR	28	225
TRVG	27	226

Sources:
Factiva and computations performed by Crowninshield Financial Research, Inc.

72. See Appendix-B for additional details of the methodology I applied to identify high information flow and low information flow days.

73. After the high information flow and lesser information flow dates have been identified, statistical analysis is used to compare the stock price reactions on high information flow days to the stock price reactions on low information flow days. As explained by Ferrillo, Dunbar

and Tabak in their article published in 2004 in the St. John's Law Review, if the proportion of significant price movements on news days is statistically significantly different than on non-news days, "then the evidence would show that, on average, the stock price reacts to news announcements."[74]

74. The use of tests comparing security price reaction on news dates to non or lesser-news dates for assessing market efficiency is supported and explained by a group of eight testifying finance experts who wrote an *Amici Curiae* brief in *Halliburton II*:

> Another way to perform an event study is to divide the days of the class period ex ante into expected news days and non-news days before examining price movements, and then compare the stock's price movements in the two categories to see if there is a statistically significant difference in price movement between the two categories. If the study finds a difference in price movement between the two sample sets (e.g., earnings-release dates versus non-earnings-release dates), that is statistical evidence that the market incorporates new public information into the price of the stock.[75]

75. I employed a Fisher's exact test to compare the frequency of statistically significant stock price reactions on high information flow days as compared to lesser information flow days. The Fisher's exact test is a commonly used and widely accepted statistical tool for testing for a difference in the frequency of statistically significant observations between two samples.[76] If the

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[74] "The 'Less Than' Efficient Capital Markets Hypothesis: Requiring More Proof from Plaintiffs in Fraud-On-The-Market Cases," Paul Ferrillo, *et al*., *St. John's Law Review* 78 (81), Winter 2004, p. 120.

[75] Brief of Testifying Economists as *Amici Curiae* in Support of Respondent, *Halliburton Co. and David Lesar v., Erica P. John Fund, Inc., FKA Archdiocese of Milwaukee Supporting Fund, Inc.*, No. 13-317, dated February 5, 2014, p. 10.

[76] *See, e.g.*, for example, "Reference Guide on Statistics," by David H. Kaye and David A. Freeman, in *Reference Manual on Scientific Evidence*, 3rd Edition, The National Academies Press, 2011, p. 287; "Statistical Inference About Means and Proportions with Two Populations," by David R. Anderson et al., Chapter 10 of *Statistics for Business and Economics*, 2nd Edition, West

frequency of statistically significant security price reactions on high information flow days is statistically significantly greater than the frequency of statistically significant price reactions on lesser information flow days for an Affected Company, one can conclude for that company that its stock price reacted to information during the Relevant Period. Such a result would demonstrate a cause-and-effect relationship between news and reactions in the price of an Affected Company's stock, thereby demonstrating market efficiency.

76. Similar tests are commonly employed by both plaintiff and defense experts in securities litigation to test for a cause-and-effect relationship.[77] Such statistical analysis has also been accepted by courts when assessing market efficiency:[78]

> [C]ourts have ... endorsed the comparison test that [Plaintiffs' expert] used. *See, e.g., In re Alstom SA Sec. Litig.*, 253 F.R.D. 266, 280 (S.D.N.Y. 2008). This test 'involves comparing the percentage of days with news that have a statistically significant price movement to the percentage of days without news that have a statistically significant price movement.' Paul A. Ferrillo et al., *The 'Less Than' Efficient Capital Markets Hypothesis: Requiring More Proof from Plaintiffs in Fraud-on-the-Market Cases*, 78 St. John's L. Rev. 81, 120 (2004). If the stock price

Publishing, 1984; and "Tests of Hypothesis," by Robert D. Mason et al., Chapter 9 of *Statistical Techniques in Business and Economics*, 10th Edition, Irwin McGraw-Hill, 1999.

[77] *See*, *e.g.*, "The 'Less Than' Efficient Capital Markets Hypothesis: Requiring More Proof from Plaintiffs in Fraud-On-The-Market Cases," by Paul A. Ferrillo et al., *St. John's Law Review*, Vol. 78, No. 1, 2004, pp. 119-122; "Use and Misuse of Event Studies to Examine Market Efficiency," by David I. Tabak, NERA White Paper, April 30, 2010; and "The Curious Incident of the Dog That Didn't Bark and Establishing Cause-and-Effect in Class Action Securities Litigation," by Michael L. Hartzmark and H. Nejat Seyhun, *Virginia Law & Business Review*, Vol. 6, No. 3, 2012, p. 415.

[78] See, e.g., *In re Polymedica Corp. Sec. Litig.*, 453 F. Supp. 2d 260 (D. Mass 2006) at 269; *In re Alston SA Sec. Litig.*, 253 F.R.D. 266 (S.D.N.Y. 2008), at 279; *Vinh Nguyen v. Radient Pharmaceuticals Corp. et al.*, 287 F.R.D. 563 (S.D.Cal. 2012), at 30; *Christel Billhofer et al. v. Flamel Technologies, S.A.* et al., 281 F.R.D. 150 (S.D.N.Y. 2012) at 163; and *In re DVI, Inc. Securities Litigation*, 249 F.R.D. (3d Cir. 2011) at 211-212.

is significantly more likely to change on News Days than on Non-News Days, that suggests a causal relationship between material news and the stock price.[79]

77. Importantly, as I noted above, not all high information flow dates are expected to cause a statistically significant stock price reaction. This is reasonable as high information flow days were selected using a broad (but objective) criteria.

c. ***Cause-and-Effect Analysis: Results and Findings***

78. For eight of the nine Affected Companies there was clear evidence of a cause-and-effect relationship between news and reactions in the Companies' stock prices. Specifically, the Fisher's Exact Test found that for AMC, BB, BBBY, EXPR, GME, KOSS, NOK, and TRVG there was a statistically significant difference between high information flow days and low information flow days during the Relevant Period. Table-9 below summarizes the test parameters and results. Fisher's Exact Test p-values that are less than 5% are statistically significant at the 95% confidence level. The eight companies all had p-values of less than 1%, i.e. greater than a 99% confidence level), and all but one had confidence levels greater than 99.5%.

[79] *McIntire v. China MediaExpress Holdings*, Inc., 38 F. Supp. 3d 415 (S.D.N.Y. 2014), at 430.

Table-9: Collective Test Results for Relevant Period

	High Information Flow Days			Low Information Flow Days			
Affected Company	Total Days	Statistically Significant Days	% of Significant Days	Total Days	Statistically Significant Days	% of Significant Days	**Fisher's Exact Test P-Value[1]**
AMC	25	8	32.00%	228	11	4.82%	0.01%
BB	26	6	23.08%	227	6	2.64%	0.04%
BBBY	26	9	34.62%	227	12	5.29%	0.00%
EXPR	25	5	20.00%	228	9	3.95%	0.68%
GME	26	8	30.77%	227	5	2.20%	0.00%
KOSS	32	6	18.75%	221	5	2.26%	0.08%
NOK	25	6	24.00%	228	11	4.82%	0.30%
TR	28	2	7.14%	225	11	4.89%	64.25%
TRVG	27	6	22.22%	226	8	3.54%	0.14%

Sources: Factiva, CRSP, Bloomberg, and computations performed by Crowinshield Financial Research, Inc.

Note:

[1] Fisher's Exact Test p-values that are less than 5% are statistically significant at the 95% confidence level, or greater.

79. The results of these statistical tests support the conclusion that the stock prices for eight of the nine Affected Companies reacted to information during the Relevant Period.

D. The *Unger/Krogman* Factors Considered

80. In addition to evaluating market efficiency using the *Cammer* factors, I also analyzed three factors considered by the Fifth Circuit Court of Appeals in *Unger v. Amedisys*, 401 F.3d 316 (5th Cir. 2005), and the district court in *Krogman v. Sterritt*, 202 F.R.D. 467 (N.D. Tex. 2001) as indicative of market efficiency.

1. Market Capitalization

81. Economists have often considered the market value of a firm when attempting to determine market efficiency. Larger capitalization companies tend to attract more analyst and news media coverage and gain the attention of greater numbers of investors, including very large institutional investors, factors themselves indicative of market efficiency.

82. The court in *Krogman* held that "[m]arket capitalization, calculated as the number of shares multiplied by the prevailing share price, may be an indicator of market efficiency because

there is a greater incentive for stock purchasers to invest in more highly capitalized corporations."[80] In addition, some investors such as pension funds are often restricted to owning securities whose market capitalization is sufficiently high.

83. For all Affected Companies, Table-10 below presents the average market capitalizations, and the respective percentile ranks versus the market capitalizations of all publicly traded companies during the Relevant Period.

Table-10: Market Capitalization During the Relevant Period

Affected Company	Average Market Capitalization	Percentile vs. All Other U.S. Stocks' Market Capitalizations
AMC	$287,290,903	47%
BB	$3,053,056,842	81%
BBBY	$1,678,528,197	73%
EXPR	$108,203,106	30%
GME	$723,057,391	62%
KOSS	$15,464,461	8%
NOK	$2,929,185,878	80%
TR	$1,297,426,817	70%
TRVG	$100,496,164	29%

Sources: CRSP and SEC filings of Affected Companies.

84. Excluding KOSS, the Affected Companies' market capitalizations ranged from sizable to large. Consistent with the *Unger/Krogman* opinions, these companies' market capitalizations throughout the Relevant Period are further evidence of market efficiency.

[80] *Krogman*, 202 F.R.D. 467 at 478.

2. Float

85. Float excludes shares held by insiders and affiliated corporate entities. For all Affected Companies, Table-11 below presents the average float and the respective percentile rank versus the market capitalizations of all publicly traded companies during the Relevant Period.[81]

Table-11: Float Capitalization During the Relevant Period

Affected Company	Average Float Capitalization	Percentile vs. All Other U.S. Stocks' Market Capitalizations	Above $75 Million?
AMC	$281,713,622	46%	Yes
BB	$3,012,253,936	80%	Yes
BBBY	$1,657,707,529	73%	Yes
EXPR	$106,350,091	30%	Yes
GME	$714,876,656	62%	Yes
KOSS	$3,513,589	2%	No
NOK	$2,927,413,519	80%	Yes
TR	$535,775,739	57%	Yes
TRVG	$92,411,914	28%	Yes

Sources: CRSP and SEC filings of Affected Companies.

86. Excluding KOSS, the magnitude of these companies' floats are indicative of the efficiency of the market for their stock during the Relevant Period.

3. Bid-Ask Spread

87. A narrow bid-ask spread for a particular security is also often associated with efficiency because it implies that there is a large number of investors willing to buy or sell a security, thus the cost of executing a trade is lower, all else being equal.

[81] As float capitalization is always lower than market capitalization, comparing the Affected Companies' float capitalization to the market capitalization of all other publicly traded companies is conservative.

88. I obtained the daily closing bid and ask quotes for all Affected Companies stock during the Relevant Period from CRSP. I measured the percentage bid-ask spread as the difference between the bid and ask quotes, divided by the average of the bid and ask quotes.[82]

89. For all Affected Companies, Table-12 below shows the average bid-ask spread during the Relevant Period in dollar and percentage terms. Table-12 also presents the average month-end bid-ask spread over the course of the Relevant Period for all stocks in the CRSP database.[83]

Table-12: Bid-Ask Spreads During the Relevant Period

Affected Company	Average Bid-Ask Spread (%)	Average Bid-Ask Spread ($)	Narrower Than Market?
AMC	0.26%	$0.01	Yes
BB	0.20%	$0.01	Yes
BBBY	0.10%	$0.01	Yes
EXPR	0.52%	$0.01	Yes
GME	0.18%	$0.01	Yes
KOSS	3.40%	$0.15	No
NOK	0.26%	$0.01	Yes
TR	0.05%	$0.02	Yes
TRVG	1.08%	$0.02	No
All CRSP Stocks	**0.62%**	**$0.20**	

Source: CRSP.

90. With the exceptions of KOSS and TRVG, the average bid-ask spread of the Affected Companies was narrower than the average level among all other CRSP stocks. For these seven Companies, the bid-ask spread measure favors a finding of market efficiency.

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[82] "Price Reversals, Bid-Ask Spreads, and Market Efficiency," by Allen B. Atkins and Edward A. Dyl, *Journal of Financial and Quantitative Analysis*, vol. 25, no. 4, 1990.

[83] This calculation is based upon averaged month-end data from CRSP for January 2020 through December 2020.

VI. COMMON DAMAGE METHODOLOGY

91. Plaintiffs' counsel has asked me to opine on whether per share damages could be measured for each Class member under Sections 9(a)(2) and 10(b) of the Exchange Act using a common methodology for all Class members.[84]

A. Sections 9(a)(2) and 10(b) Damages Methodology

92. Economic analysis can be used to estimate the relationship between Robinhood's alleged manipulation of the Affected Companies' share prices and the subsequent decline in those shares' prices. The methodologies a financial economist can employ to calculate individual and class-wide damages stemming from stock price manipulation will accommodate alternative potential determinations of liability.

93. I have been informed by counsel for Plaintiffs that under Sections 9(a)(2) and 10(b) of the Exchange Act, in a case where class members are defrauded sellers, the measure of damages "is the difference between the fair value of all that the [] seller received and the fair value of what he would have received had there been no fraudulent conduct, … ."[85]

94. Class-wide damages in response to Robinhood's manipulation of the Affected Companies' shares prices ultimately established by the Plaintiffs can be calculated in a straightforward manner common to all Class members.

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[84]It should be noted that I have not conducted a loss causation analysis at this time and reserve the right to address such issues at the appropriate stage of the litigation. The loss causation analysis that will be necessary to calculate actual damages in the current case requires the full development of the record.

[85] *Affiliated Ute Citizens of Utah v. United States*, 406 U.S. 128, 155, 92 S. Ct. 1456, 1473, 31 L. Ed. 2d 741 (1972).

95. For example, damages for a defrauded seller can be measured as the difference between the market value of the Affected Companies' shares' prices at close of trading on January 27, 2021 (before Robinhood first implemented various alleged restrictions), and the prices at which Class Members sold their shares during the Class Period, reduced by non-Robinhood related price deflation. The method is summarized below.

96. First, analytic tools would be used to establish that Robinhood's alleged market manipulation caused the price of the Affected Companies' shares to fall and remain deflated during the Class Period. Assuming a verdict for the Plaintiffs on the allegations of market manipulation, damages under Sections 9(a)(2) and 10(b) for each security can thus be measured as follows:

a. An empirical model will be developed that apportions the responsibility for the deflation in the Affected Companies' shares by taking into account a variety of factors, that may include the timing, duration, and nature of the various trading restrictions imposed during the Class Period by Robinhood and others, relevant news entering the market, trading volume of Robinhood's customers in the Affected Companies' securities, share price movements in response to imposition and lifting of various restrictions, and other factors not related to the restrictions.

b. Once the above-described loss causation analyses have disaggregated all of the Affected Companies' share price declines resulting from any factors unrelated to Robinhood's alleged manipulative conduct, one is able to determine the portion of the difference between the shares' market prices at close of trading on January 27, 2021, and investors' sale prices during the Class Period that is attributable to Robinhood's allegedly fraudulent conduct.

c. The PSLRA 90-day look-back provision applied in artificial inflation cases based upon misrepresentations and omissions does not appear to apply to potentially cap damages on market manipulation claims such as here based on the text of the statute:

> (1) In general; Except as provided in paragraph (2), in any private action arising under this chapter in which the plaintiff seeks to establish damages by reference to the market price of a security, the award of damages to the plaintiff shall not exceed the difference between the purchase or sale price paid or received, as appropriate, by the plaintiff for the subject security and the mean trading price of that security during the 90-day period beginning on the date on which ***the information correcting the misstatement or omission that is the basis for the action is disseminated to the market***.[86]

97. Because the Plaintiffs' market manipulation claims do not allege the correction of a misstatement or omission, but rather Robinhood's eventual lifting of its trading restrictions in the Affected Companies' shares, the 90-day lookback provision by its terms does not appear to apply. Nonetheless, if the Court were to determine the 90-day look-back provision applies, it is a relatively straight-forward and simple calculation once it is determined when the period commences for each security. The calculation of each Class member's damages would be a mechanical arithmetical exercise, conducted the same way for all Class members, applying the results of the Class-wide analyses described above to each Class member's trading data.

98. Consequently, each Class member's per security damages under Sections 9(a)(2) and 10(b) can be computed in the same way, common to all Class members, using readily available pricing information, in accordance with widely-used and generally-accepted methodologies.

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[86] 15 U.S.C.A. § 78u-4 (West) (emphasis added).

99. I have not been asked to evaluate loss causation or to calculate damages for any of the claims alleged on behalf of the Class, and such calculations will depend, in part, on the completion of discovery. However, the methodology described above is generally accepted and widely used for calculating damages under the Exchange Act consistently on a class-wide basis in securities class actions. To the extent that there are specific issues complicating the quantification of artificial deflation and damages, such as potential confounding information, these issues relate to the merits of the damages model – not whether damages can be calculated on a class-wide basis pursuant to a common methodology for the Class.

VII. CONCLUSION

100. Based on my analyses explained in detail above, I conclude that seven of the nine Affected Companies' shares, specifically AMC Entertainment Holdings, Inc., Bed Bath & Beyond Inc., BlackBerry Ltd., Express Inc., GameStop Corp., Nokia Corp., and trivago N.V. traded in efficient markets with regard to publicly disclosed information for the one-year period prior to the Class Period.

101. I also conclude that with expert assistance, the finder of fact in this matter will be able to compute damages using a common class-wide methodology that applies to the calculation of damages for each and every Class member.

VIII. APPENDIX-A

102. To control for industry-related factors for each Affected Company, I examined their respective Form 10-Ks and Annual Reports filed during the Relevant Period in order to identify the index each Affected Company compared its stock price performance to. For six of the nine Affected Companies, I was able to identify a suitable Industry Index though this methodology. Table-13 below presents the results of this process:

Table-13: Industry Index Selection Based on SEC Filings

Affected Company	Appropriate Industry Index	Source
AMC	"A self-determined peer group consisting of Cinemark Holdings, Inc. (CNK) and IMAX Corporation (IMAX)"	Form 10-K, filed February 28, 2020, p. 30.
BBBY	S&P Specialty Retail Index	Form 10-K, filed April 29, 2020, p. 17.
BB	S&P 500 Information Technology index	Form 10-K, filed February 29, 2020, p. 25.
EXPR	Dow Jones U.S. Apparel Retailers Index	Form 10-K, filed March 17, 2020, p. 22.
GME	Dow Jones Specialty Retailers Index	Form 10-K, filed March 27, 2020, p. 14.
TR	Dow Jones US Food Producers Index	Form 10-K, filed February 28, 2020, p. 11.

103. For the remaining three Affected Companies, NOK, KOSS, and TRVG, I was not able to identify a comparable industry index within each companies' 10-K and Annual Report filings during the Relevant Period. I instead relied on the Global Industry Classification Standard ("GICS") identifier for each of the three companies to identify an appropriate industry index. I first obtained the GICS identifier for NOK, KOSS, and TRVG from Bloomberg. Because GICS identifiers denote the industry sector that the associated company belongs to, I was able to determine the appropriate comparison industry for NOK, KOSS, and TRVG. Subsequently, I identified an S&P index that reflects the appropriate comparison industry for each of the three companies, respectively.[87] The results of this process are summarized in Table-14 below:

[87] The GICS Identifier is composed of up to eight numerical digits, with every two digits representing a different level of sector classification. The first two digits denote a company's "sector", the next two digits denote a company's "industry group", the fifth and sixth digits denotes a company's "industry", and the final two digits denote a company's "sub-industry." For the

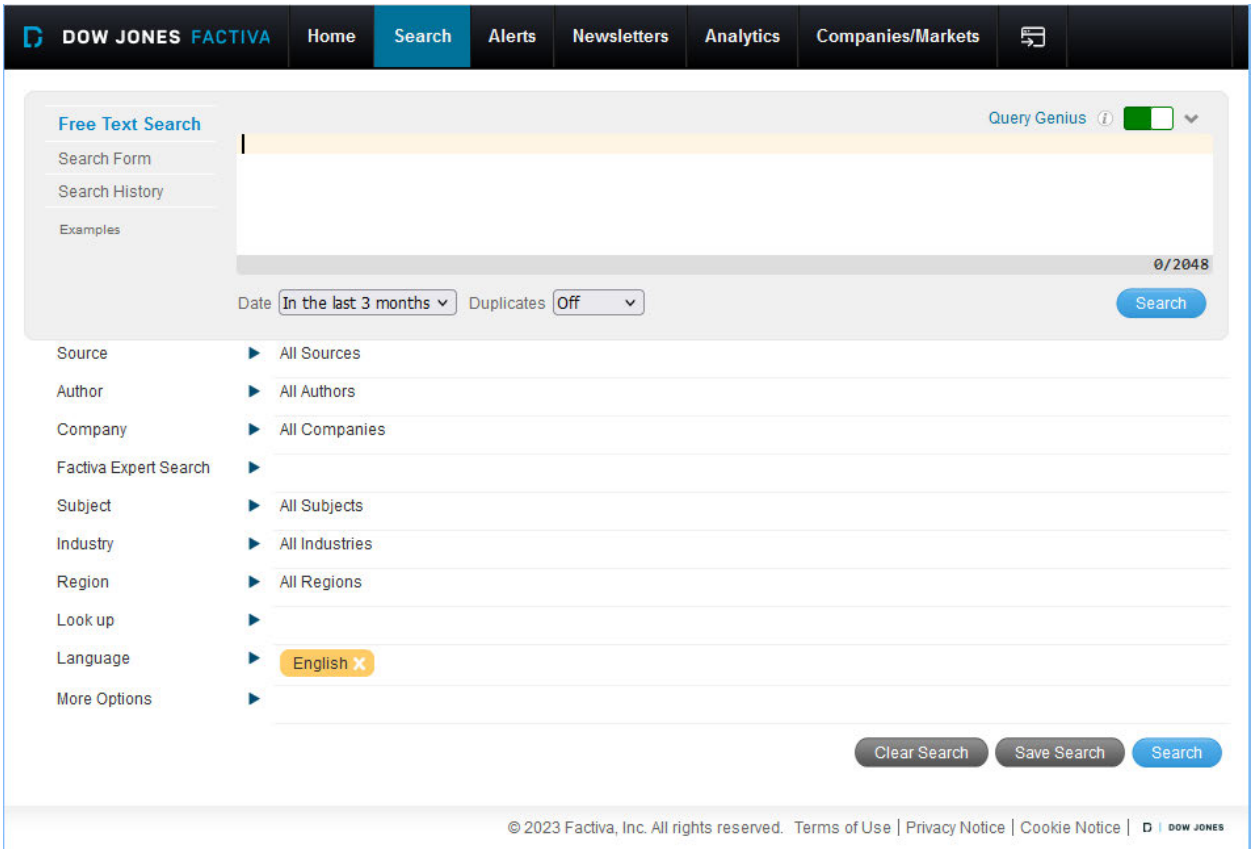
Table-14: Industry Index Selection Based on GICS

Affected Company	GICS Identifer	Industry Classification	Chosen Industry Index
NOK	452010	Communications Equipment	S&P 500 Communications Equipment Industry Index
KOSS	252010	Household Durables	S&P 500 Household Durables Industry Index
TRVG	502030	Interactive Media & Services	S&P 500 Interactive Media & Services Industry Index

purposes of my analyses, I selected NOK, KOSS, and TRVG's peer index based on each company's "industry" classification.

IX. APPENDIX-B

104. To determine the samples of high information flow days and low information flow days for purposes of the collective tests I performed, I began by searching for all news articles published about each of the nine Affected Companies through the news aggregator Factiva. Factiva provides a search tool to identify specified news articles published about most U.S. traded companies during a specified period. By default, this search function is displayed as follows:



105. As shown above, there are twelve modifiable options for how to parameterize the Factiva search, "date range", "duplicates", "source", "author", "company", "Factiva expert search", "subject", "industry", "region", "look-up language", "more options", and a "Free Text Search" that allows for searching specific words or phrases. For purposes of the collective tests I performed, I modified three out of the eleven options, these were: "date range", "duplicates", and

"company". Because the design of my collective tests required an objective sample of days on which news articles were published, I left all other fields in the search parameters as they appear by default.

106. For the three search parameters I modified:

a. "date range" was set to the Relevant Period.

b. "duplicates" was set to "identical", which removes identical news articles from appearing in the search.

c. "company" was set to each of the nine Affected Companies.

107. Using these modified search parameters, I identified all news articles published about the Affected Companies during the Relevant Period. The total number of news articles I identified for each Affected Company using this process is shown in Table-15 below:

Table-15: Unique News Articles Published During the Relevant Period

Affected Company	No. of News Articles
AMC	2,081
BB	999
BBBY	2,210
EXPR	332
GME	1,380
KOSS	112
NOK	6,955
TR	35
TRVG	213

Source: Factiva.

108. For each article, Factiva provides the date that the article was published and its headline. Using the publication date, I counted the number of unique news articles published on every day of the Relevant Period for each of the Affected Companies.

109. Exhibit-8 presents the number of unique news articles I counted for each day of the Relevant Period across the nine Affected Companies.

X. LIMITING FACTORS AND OTHER ASSUMPTIONS

110. My analyses and opinions are based on the information available as of the date of this declaration. Should any additional data or information become available subsequent to the submission of this declaration, I reserve the right to supplement or amend this declaration based on this new information.

Dated: February 16, 2023

Adam Werner, PhD
Affiliated Expert,
Crowninshield Financial Research

Exhibit-1
Curriculum Vitae
Adam Werner, Ph.D.

EDUCATION

1998	Northwestern University, Kellogg Graduate School of Management Ph.D. in Finance
1992	Oberlin College B.A. in Economics

TEACHING EXPERIENCE

2014 – Present	Cal Poly San Luis Obispo Orfalea College of Business San Luis Obispo, CA Lecturer in Economics

BUSINESS EXPERIENCE

2015 – Present	Crowninshield Financial Research
2018 – 2021	Pismo Beach Planning Commission
2009 – 2015	Gnarus Advisors/Berkeley Economic Consulting
2008 – 2009	LitiNomics
2004 – 2008	CRA International
2000 – 2003	National Economic Research Associates, Inc.
1998 – 2000	Cornerstone Research
1992 – 1993	Federal Reserve Bank

PAPERS AND PUBLICATIONS

"The Impact of Underwriter Reputation on Equity Offering: An Empirical Study." Thesis, 1999.

"The Long-Run Performance of Underwriters and its Impact on Seasoned Equity Offerings." 1999.

"Dynamic Measures of Underwriter Reputation: A Study of IPO's." 1999.

"CAFE Economics: A Note on the Limits and Effectiveness of Fuel Economy Regulation." With Stephen Sheppard, 1992.

"Trading Models Underestimate Securities Class Damages." with Narinder Walia, Law360, 2019.

"More 'Dark Pools" Deepen Litigation Issues." Law360, 2013.

"Recent Trends in Securities Class Action Litigation: Will Enron and Sarbanes-Oxley Change the Tides." with Elaine Buckberg, Todd Foster and Ronald Miller, 2003.

"The Effects of the PSLRA and Subsequent Events on Securities Litigation." With Fred Dunbar and Todd Foster, prepared for the New York City Bar Association, 2003.

"The Energy Tax: Who Pays?" joint with Mark Schweitzer, in Federal Reserve Bank of Cleveland's Economic Commentary, 1993.

PRESENTATIONS

"Cause or Effect: Are Settlement Statistics Driving Down Settlements?" Presentation to Robbins Geller Rudman & Dowd, LLP in San Diego, CA on October 10, 2013, Wolf Popper, LLP in New York, NY on September 18, 2013, Abraham, Fruchter & Twersky, LLP in New York, NY on September 17, 2013, Robbins Geller Rudman & Dowd, LLP in Melville, NY on September 11, 2013, Entwistle & Cappucci, LLP in New York, NY on September 10, 2013, and Faruqi & Faruqi, LLP in New York, NY on September 10, 2013.

"The Economics of Securities Litigation." Sidley & Austin in Los Angeles, CA on March 14, 2007.

"The Global Cost of Capital." Panel discussion on valuing assets in foreign countries at the University of Texas School of Law VALCON conference in Las Vegas on February 8, 2007.

"Economic Damages in Securities Fraud Matters." NERA Luncheon Seminars with Alan Cox given at the Fifth Avenue Suites Hotel in Portland, OR on November 19, 2002 and at the W Hotel in Seattle, WA on November 20, 2002.

"Shareholder Class Actions: Calculation of Damages." Presentation to Skadden, Arps, Slate, Meagher & Flom, LLP in San Francisco, CA on October 30, 2002, Marsh FINPRO in San Francisco, CA on September 18, 2002, Marsh Risk & Insurance Services in San Diego, CA on September 17, 2002 and Marsh FINPRO in Los Angeles, CA on September 13, 2002.

"Capital Formation: Class Action Litigation and Prevention." Speech and panel discussion focusing on securities class action litigation, which sometimes arise from

initial public offerings and/or market volatility in the aftermarket. Presented at the 2002 CALBIO Summit in San Diego, CA on April 23, 2002.

"Shareholder Class Actions after the NASDAQ Bubble." Speech given to the Securities Litigation Sub-Committee of the Colorado Bar Association at Holland & Hart, LLP in Denver, CO on April 17, 2002.

"Trends in Litigation: How Claims and Losses Are Valued." Speech at the American Bankers Association Insurance Risk Management Annual Conference in San Diego, CA on February 4, 2002.

"Recent Trends in Securities Litigation." "Basic Economic Analysis in Securities Class Action" and "Challenging the Efficient Market Assumption in Securities Class Action Matters." presented to Cooley Godward in San Diego, CA on November 28, 2001. "Recent Trends in Securities Litigation." presentation with Marcia Mayer given at Howard, Rice, Nemerovski, Canady, Falk & Rabkin in San Francisco, CA on November 27, 2001.

"Recent Trends in Securities Litigation." presentation given to Marsh USA in Denver, CO on November 8, 2001, and Thelen, Reid & Priest in Los Angeles, CA on November 6, 2001.

"Financial Economics in Litigation." speech presented to Simpson, Thacher & Bartlett in Palo Alto, CA on July 31, 2001, Baker & McKenzie in San Diego, CA on July 18, 2001, Brobeck, Phleger & Harrison in San Francisco, CA on June 25, 2001 and to Latham & Watkins in San Francisco, CA on June 26, 2001.

"Economic Analysis in Securities Fraud Cases." Speech with Alan Cox delivered to Morrison & Forester, San Francisco, CA on July 25, 2001.

"Recent Trends: Shareholder Class Actions Five Years After the PSLRA." speech presented to Shearman & Sterling in San Francisco, CA on May 23, 2001, O'Melveny & Myers in Los Angeles, CA on May 30, 2001 and Gray, Cary, Ware & Freidenrich in San Diego, CA on June 6, 2001.

EXPERT REPORTS AND TESTIMONY

In Re: NIO, Inc. Securities Litigation. Issued a declaration and provided deposition testimony (2022) on market efficiency and issued a rebuttal declaration (2022) on market efficiency and price impact in a securities class action. (Eastern District of New York).

Gelt Trading LTD. v. Co-Diagnostics, Inc., et al. Issued a declaration (2022) on market efficiency and issued a rebuttal declaration (2022) on price impact in a securities class action. " (District of Utah, Central Division).

Exhibit-1
Curriculum Vitae
Adam Werner, Ph.D.

6D Global Technologies, Inc. Securities Litigation. Issued a declaration (2022) on loss causation and damages in a securities class action. (Southern District of New York).

Securities and Exchange Commission v. Bradley C. Davis. Issued a report (2021), a rebuttal report (2021), provided deposition testimony (2021), and provided trial testimony (2022) on materiality in a case brought by the SEC (U.S.D.C. Central District of California).

In Re: Omega Healthcare Investors, Inc. Securities Litigation. Issued a declaration (2022), provided deposition testimony (2022), and issued a rebuttal declaration (2022) on market efficiency in a securities class action. (Southern District of New York).

Andrew Trampe v. CD Projekt S.A. Issued a declaration (2022) on aggregate damages in a securities class action. (Central District of California).

In re Global Brokerage, Inc. f/k/a/ FXCM Inc. Issued a report (2020), a rebuttal report (2020), provided deposition testimony (2020) and testified (2020) on market efficiency in a securities class action. Issued a report (2021), a rebuttal report (2021) and provided deposition testimony (2021) on loss causation and damages (U.S.D.C. Southern District of New York).

George Barney, et al. v. Nova Lifestyle, Inc., et al. Issued a report on market efficiency in a securities class action (U.S.D.C. Central District of California, 2021).

Peter Voulgaris, et al. v. Array Biopharma Inc., et al. Issued a declaration on market efficient in a securities class action (District of Colorado, 2021).

In re Innocoll Holdings Public Limited Company Securities Litigation. Issued a report (2020), provided deposition testimony (2020) on market efficiency, and issued a rebuttal report (2020) in a securities class action (U.S.D.C. Eastern District of Pennsylvania).

Michael Tietz, et al. v. Crytobloc Technologies Corp., et al. Issued a report on price impact in a securities class action (Supreme Court of British Columbia, 2020).

In re Horsehead Holding Corp. Securities Litigation. Issues a report (2020) and provided deposition testimony (2020) on market efficiency in a securities class action (U.S.D.C. District of Delaware).

Bing Li, et al. v. Aeterna Zentaris, Inc., et al. Issued a declaration (2016), a report (2017), and provided deposition testimony (2017) on market efficiency in a securities class action. Issued a declaration (2019) a reply report (2019), and provided deposition testimony (2020) on loss causation and damages (U.S.D.C. District of New Jersey).

Exhibit-1
Curriculum Vitae
Adam Werner, Ph.D.

In re Patriot National Inc. Securities Litigation. Issued a declaration (2019) and a supplemental declaration (2019) on damages in a securities class action (U.S.D.C. Southern District of New York).

Hamza Ramzan, et al. v. GDS Holdings Limited, et al. Issued a declaration on NASDAQ microstructure in a securities class action (U.S.D.C. Eastern District of Texas, Marshall Division, 2019).

Ivan Nibur, et al. v. SandRidge Mississippian Trust I, et al. Issued a declaration (2018), a reply declaration (2018), a supplemental reply declaration (2018), and provided deposition testimony (2018) on market efficiency in a securities class action. Issued a declaration (2019) a rebuttal declaration (2019), and provided deposition testimony (2019) on loss causation and damages (U.S.D.C. Western District of Oklahoma).

In Re Insys Theraputics, Inc. Securities Litigation. Issued a report on market efficiency in a securities class action (U.S.D.C. Southern District of New York, 2019).

In Re Spectrum Pharmaceuticals, Inc. Securities Litigation. Issued a declaration (2019) and provided deposition testimony (2019) on market efficiency in a securities class action (U.S.D.C. District of Nevada).

Amanda Beezley et al. v. Fenix Parts, Inc., et al. Issued a declaration on market efficiency in a securities class action (U.S.D.C. Northern District of Illinois, Eastern Division, 2019).

Michael Desta, et al. v. Volkswagen Aktiengesellschaft, et al. Issued a declaration regarding benefits to firms that have ADRs listed in a securities class action (U.S.D.C. Eastern District of New York, 2018).

Michael Desta, et al. v. Wins Finance Holdings Inc., et al. Issued a declaration (2018) and provided deposition testimony (2018) on market efficiency in a securities class action (U.S.D.C. Central District of California).

Andrew Meyer, et al. v. Concordia International Corp., et al. Issued a declaration (2018), a reply declaration (2018), and provided deposition testimony (2018) on market efficiency in a securities class action. Issued a declaration (2018), a reply declaration (2018), and provided deposition testimony (2018) on loss causation and damages (U.S.D.C. Southern District of New York).

In re: K12 Securities Litigation. Issued a declaration (2018) and provided deposition testimony (2018) on market efficiency in a securities class action (U.S.D.C. Northern District of California).

Exhibit-1
Curriculum Vitae
Adam Werner, Ph.D.

Robert Colman, et al. v. Theranos, Inc., et al. Issued a declaration on damage methodology and price impact in a securities class action (U.S.D.C. Northern District of California, San Jose Division, 2018).

In re: CytRx Corporation Securities Litigation. Issued a declaration (2017) and provided deposition testimony (2018) regarding market efficiency in a securities class action (U.S.D.C. Central District of California).

Lord Abbett Affiliated Fund, Inc., et al. v. American International Group, Inc. Issued a report regarding market efficiency, loss causation, and damages in a securities case (U.S.D.C. Southern District of New York, 2017).

Xiaolin Chi, et al. v. Qiao Xing Universal Resources, Inc., et al. Issued a report on damages in a securities class action (District Court of the Virgin Islands, St. Croix Division, 2017).

John Hosey v. Twitter, Inc., et al. Issued a declaration (2017) and provided deposition testimony (2017) regarding rebuttal to Defendants' Motion for Summary Judgement in a securities class action (Superior Court of the State of California, County of San Mateo).

Gwyn R. Hartman Revocable Living Trust v. Southern Michigan Bancorp, Inc. et al. Issued a report on damages arising from alleged exclusions in a proxy solicitation (U.S.D.C. Western District of Michigan, 2017).

Fred Kelsey, et al. v. Textura Corporation, et al. Issued a declaration (2017) and provided deposition testimony (2017) on market efficiency in a securities class action (U.S.D.C. Northern District of Illinois).

Dave Carlton, et al. v. Fred Cannon. Issued a declaration on market efficiency in a securities class action (U.S.D.C. Southern District of Texas, Houston Division, 2016).

James Middlemiss v. Penn West Petroleum LTD., et al. Issued a report on damages in a securities class action (Superior Court of Justice Ontario, Canada, 2016).

David Loritz, et al. v. Exide Technologies, et al. Issued a report on damages and loss causation in a securities class action (U.S.D.C. Central District of California, 2015)

Manishkumar Khunt, et al. v. Alibaba Group Holding Limited, et al. Issued a declaration on potential investor damages in a securities class action (U.S.D.C. Southern District of New York, 2015).

Biotechnology Value Fund, L.P. et al. v. Celera Corporation et al. Issued a report (2014), a reply report (2014), a supplemental report (2014), and provided deposition

testimony (2014) on damages arising from a merger (U.S.D.C. Northern District of California).

In re: Hi-Crush Partners L.P. Securities Litigation. Issued a declaration (2014), a supplemental declaration (2014), and provided deposition testimony (2014) regarding market efficiency in a securities class action (U.S.D.C. Southern District of New York).

Ian Mausner v. MarketByte LLC, et al. Issued a declaration about investment advisor incentives and liquidity needs in a securities class action (U.S.D.C. Southern District of California, 2014).

Artes Medical, Inc. v. Lemperle et al. Provided deposition testimony on behalf of defendants about alleged damages caused by a proxy contest (Superior Court of the State of California, County of San Diego, Central District, 2013).

In re: Ebix Inc. Securities Litigation. Issued a declaration (2012) and provided deposition testimony (2013) regarding market efficiency in a securities class action (U.S.D.C. Northern District of Georgia, Atlanta Division).

Erik Poole and William Rhody v. Alange Energy Corp., et al. Issued a report (2012) and a reply report (2013) on market efficiency and damages in a securities class action (Superior Court of Justice Ontario, Canada).

In re: Hecla Mining Securities Litigation. Issued a declaration on investor losses in a securities class action (U.S.D.C. District of Idaho, 2012).

Mark Henning, Roman Zaretski and Chrisitan Stillmark v. Orient Paper, Inc. et al. Issued a declaration (2011), a supplemental declaration (2012) and provided deposition testimony (2012) regarding market efficiency in a securities class action (U.S.D.C. Central District of California).

Carlos Munoz et al. v. China Expert Technology, Inc., et al. Issued a declaration (2012), a supplemental declaration (2012) and provided deposition testimony (2012) in a securities class action regarding market efficiency (U.S.D.C. Southern District of New York).

Theodore Dean, et al. v. China Agritech, Inc., et al. Issued a declaration (2012), a supplemental declaration (2012) and provided deposition testimony (2012) in a case regarding market efficiency in a securities class action (U.S.D.C. Central District of California).

Robert Michael Shenk, Derivatively on Behalf of Sirius XM Radio Inc. v. Melvin Alan Karmazin, et al. Issued an expert report (2011), a supplemental expert report (2012) and provided deposition testimony (2012) in a case involving damages in a shareholder derivative matter (U.S.D.C. Southern District of New York).

Exhibit-1
Curriculum Vitae
Adam Werner, Ph.D.

Pathway Investments Pty Ltd and Doystoy Pty Ltd v. National Australia Bank Ltd. Submitted a report on survey techniques, the efficient market hypothesis and liquidity in a securities class action (Supreme Court of Victoria at Melbourne, Australia, Commercial and Equity Division, Commercial Court, 2012).

Bruce Simmonds, Robert Grant and Gordon Moore v. Armtec Infrastructure Inc. et al. Issued a report on market efficiency and damages in a securities class action (Superior Court of Justice Ontario, Canada, 2011).

In re: BP plc. Securities Litigation. Issued a declaration regarding damages and materiality in a securities class action (U.S.D.C. Southern District of Texas, Houston Division, 2010).

In re: Tripath Technology Inc., Debtor. Issued a report (2009) and provided deposition testimony (2010) regarding damages arising from Directors' and Officers' breach of fiduciary duty in bankruptcy court (U.S.D.C. Northern District of California, San Jose Division).

David Ainslie and Muriel Marentette v. CV Technologies et al. Issued a report estimating damages in a securities class action (Superior Court of Justice, Ontario, Canada, 2010).

Harry Stackhouse, on Behalf of Himself and All Others Similarly Situated v. Toyota Motor Corporation, et al. Issued a declaration regarding the relationship between Toyota's U.S. stock price and Japanese stock price in a securities class action (U.S.D.C. Central District of California, 2010).

Phillip Elliot and William Kormos v. NovaGold Resources Inc., et al. Issued a declaration in a securities class action regarding trading volume in the U.S. versus Canada. (Superior Court of Justice, Ontario, Canada, 2010).

International Arbitration between a private equity firm and Chinese biotech company. Issued a report (2008) and testified (2009) before an International Arbitration Committee regarding the value of a private equity investment.

Arbitration between Albert Richards and Old Republic Title Insurance. Deposed regarding estimated damages incurred by plaintiff as a result of a forced sale of Russian securities due to Old Republic's breach of contract (2008).

Californians United for a Responsible Budget, et al., v. California State Public Works Board, et al. Issued a report on the cost of issuing revenue bonds to fund California prison expansion (The Superior Court for the State of California, County of Sacramento, 2008).

Exhibit-1
Curriculum Vitae
Adam Werner, Ph.D.

Arbitration between Daniel Lyons and Morgan Lyons, and Chinese Hospital Association and Sam English. Deposed regarding plaintiffs' calculated damages arising from asbestos exposure for plaintiff (2003).

Exhibit-2

Documents and Other Information Considered

CASE DOCUMENTS

- Consolidated Class Action Complaint, filed November 30, 2021.

NEWS ARTICLES AND PRESS RELEASES

- *See*, Appendix B.

SEC FILINGS

- AMC Entertainment Holdings, Inc., Form 10-K for the fiscal year ended December 31, 2020, filed December 4, 2020.
- BlackBerry Limited, Form 10-K for the fiscal year ended February 28, 2021, filed March 31, 2021.
- Bed Bath & Beyond Inc., Form 10-K for the fiscal year ended February 27, 2021, filed April 22, 2021.
- Express, Inc., Form 10-K for the fiscal year ended January 30, 2021, filed March 25, 2021.
- GameStop Corp., Form 10-K for the fiscal year ended January 30, 2021, filed March 23, 2021.
- Koss Corporation, Form 10-K for the fiscal year ended June 30, 2020, filed August 27, 2020.
- Nokia Corporation, Form 20-F for the fiscal year ended December 31, 2020, filed March 4, 2021.
- Robinhood Markets, Inc., Form 10-K for the fiscal Year ended December 31, 2021, filed February 24, 2022.
- Tootsie Roll Industries, Inc., Form 10-K for the fiscal year ended December 31, 2020, filed March 1, 2021.
- Trivago N.V., Form 20-F for the fiscal year ended December 31, 2020, filed March 5, 2021.

ACADEMIC AND PROFESSIONAL LITERATURE

- Aktas, Nihat, Eric de Bodt, and Jean-Gabriel Cousin, "Event Studies with a Contaminated Estimation Period," *Journal of Corporate Finance*, vol. 13., 2007

Exhibit-2

Documents and Other Information Considered

- Anderson, David R., Dennis J. Sweeney, and Thomas A. Williams, "Statistical Inference About Means and Proportions with Two Populations," Chapter 10 of Statistics for Business and Economics, 2nd Edition, West Publishing, 1984.
- Atkins, Allen B., and Edward A. Dyl, "Price Reversals, Bid-Ask Spreads, and Market Efficiency," *Journal of Financial and Quantitative Analysis*, vol. 25, no. 4, 1990.
- Barber, Brad M., Paul A. Griffin, and Baruch Lev, "The Fraud-on-the-Market Theory and the Indicators of Common Stocks' Efficiency," *The Journal of Corporation Law*, 1994.
- Binder, John J., "The Event Study Methodology Since 1969," *Review of Quantitative Finance and Accounting*, Vol. 11, 1998.
- Brav Alon, and J. B. Heaton, "Event Studies in Securities Litigation: Low Power, Confounding Effects, and Bias," *Washington University Law Review*, Vol. 93, No. 2, 2015.
- Campbell, John, Andrew W. Lo, and A. Craig Mackinlay, "Event-Study Analysis," Chapter 4 of *The Econometrics of Financial Markets*, Princeton University Press, 1997.
- Corrado, Charles J., "Event Studies: A Methodology Review," *Accounting and Finance*, Vol. 51, 2011.
- Fama, Eugene F., and Kenneth R. French, "The Cross-Section of Expected Stock Returns," *The Journal of Finance*, Vol. 47, No. 2, 1992.
- Fama, Eugene F., "Efficient Capital Markets: II," *The Journal of Finance*, Vol. 46, No. 5, 1991
- Ferrillo, Paul A., Frederick C. Dunber, and David Tabak, "The 'Less Than' Efficient Capital Markets Hypothesis: Requiring More Proof from Plaintiffs in Fraud-On-The-Market Cases," *St. John's Law Review*, Vol. 78, No. 1, 2004.
- Gold, Kevin L., Eric Korman, and Ahmer Nabi, "Federal Securities Acts and Areas of Expert Analysis," Chapter 27 of the *Litigation Services Handbook: The Role of the Financial Expert*, 6th Edition, edited by Roman L. Weil, Daniel G. Lentz, and Elizabeth A. Evans, John Wiley & Sons, Inc., 2017.
- Harris, Larry, *Trading & Exchanges*: Market Microstructure for Practitioners, Oxford University Press, 2003.
- Hartzmark, Michael L., and H. Nejat Seyhun, "The Curious Incident of the Dog That Didn't Bark and Establishing Cause-and-Effect in Class Action Securities Litigation," Virginia Law & Business Review, Vol. 6, No. 3, 2012, p. 415.
- Krippendorff, Klaus, *Content Analysis: An Introduction to Its Methodology*, 2nd edition, 2004
- Kaye, David H., and David A. Freeman, "Reference Guide on Statistics," in Reference Manual on Scientific Evidence, 3rd Edition, The National Academies Press, 2011.
- Larcker, David, Lawrence A. Gordon, and George E. Pinches, "Testing for Market Efficiency: A Comparison of the Cumulative Average Residual Methodology and Intervention Analysis," *Journal of Financial and Quantitative Analysis*, vol. 15, no. 2, 1980.

Exhibit-2

Documents and Other Information Considered

- Mason, Robert D., Douglas A. Lind, and William G. Marchal, "Tests of Hypothesis," Chapter 9 of Statistical Techniques in Business and Economics, 10th Edition, Irwin McGraw-Hill, 1999.
- Tabak, David I., "Use and Misuse of Event Studies to Examine Market Efficiency,", NERA White Paper, April 30, 2010.
- Tabak, David I., and Frederick C. Dunbar, "Materiality and Magnitude: Event Studies in the Courtroom," Chapter 19 of the *Litigation Services Handbook: The Role of the Financial Expert*, 3rd Edition, edited by Roman L. Weil et al., John Wiley & Sons, Inc., 2001.

DATA AND DATABASES

- Bloomberg
- CRSP (Center for Research in Security Prices)
- EDGAR
- Factiva
- Refinitiv Eikon

LEGAL CASES

- *Affiliated Ute Citizens of Utah v. United States*, 406 U.S. 128, 155, 92 S. Ct. 1456, 1473, 31 L. Ed. 2d 741 (1972).
- *Amgen Inc. v. Conn. Ret. Plans & Trust Funds*, 568 U.S. 455, 458 (2013).
- *Basic, Inc. v. Levinson*, 485 U.S. 224, 241 (1988).
- *Cammer* v. *Bloom*, 711 F. Supp. 1264 (D.N.J. 1989).
- *Christel Billhofer et al. v. Flamel Technologies, S.A.* et al., 281 F.R.D. 150 (S.D.N.Y. 2012)
- *Halliburton Co. and David Lesar v., Erica P. John Fund, Inc., FKA Archdiocese of Milwaukee Supporting Fund, Inc.*, No. 13-317, dated February 5, 2014.
- *In re Polymedica Corp. Sec. Litig.*, 453 F. Supp. 2d 260 (D. Mass 2006).
- *In re Alston SA Sec. Litig.*, 253 F.R.D. 266 (S.D.N.Y. 2008)
- *In re DVI, Inc. Securities Litigation*, 249 F.R.D. (3d Cir. 2011)
- *Krogman v. Sterritt*, 202 F.R.D. 467 (N.D.Tex. 2001).
- *McIntire v. China MediaExpress Holdings*, Inc., 38 F. Supp. 3d 415 (S.D.N.Y. 2014).
- *Vinh Nguyen v. Radient Pharm. Corp.*, 287 F.R.D. 563, 573 (C.D. Cal. 2012).

Exhibit-2

Documents and Other Information Considered

OTHER

- 15 U.S.C.A. § 78u-4 (West) Section 9(a)(2) of the Securities Exchange Act of 1934.
- "Revisions to The Eligibility Requirements for Primary Securities Offerings on Forms S-3 And F-3," SEC Release No. 33-8878, December 19, 2007.
- Section 9(a)(2) of the Securities Exchange Act of 1934
- Section 10(b) of the Securities Exchange Act of 1934.
- Other documents cited in my report.

Exhibit-3a

AMC Market Efficiency Statistics

January 28, 2020 through January 27, 2021

Date	Closing Price [a]	Dividend [b]	Log Return [b]	Volume [c]	Closing Bid [d]	Closing Ask [e]	Closing Bid/Ask Spread	Average Bid/Ask Spread %	Outstanding Shares [f]	Market Capitalization [g]
1/28/2020	$6.79	$0.00	6.54%	2,094,738	$6.79	$6.80	$0.01	0.15%	52,080,077	$353,623,723
1/29/2020	$6.77	$0.00	-0.29%	1,438,201	$6.76	$6.77	$0.01	0.15%	52,080,077	$352,582,121
1/30/2020	$6.84	$0.00	1.03%	1,640,585	$6.82	$6.83	$0.01	0.15%	52,080,077	$356,227,727
1/31/2020	$6.52	$0.00	-4.79%	1,883,250	$6.51	$6.52	$0.01	0.15%	52,080,077	$339,562,102
2/3/2020	$6.45	$0.00	-1.08%	1,413,558	$6.44	$6.45	$0.01	0.16%	52,080,077	$335,916,497
2/4/2020	$6.65	$0.00	3.05%	2,004,517	$6.65	$6.66	$0.01	0.15%	52,080,077	$346,332,512
2/5/2020	$7.00	$0.00	5.13%	2,167,202	$7.00	$7.01	$0.01	0.14%	52,080,077	$364,560,539
2/6/2020	$6.75	$0.00	-3.64%	2,713,416	$6.74	$6.75	$0.01	0.15%	52,080,077	$351,540,520
2/7/2020	$6.55	$0.00	-3.01%	2,063,102	$6.55	$6.56	$0.01	0.15%	52,080,077	$341,124,504
2/10/2020	$6.79	$0.00	3.60%	1,360,325	$6.79	$6.80	$0.01	0.15%	52,080,077	$353,623,723
2/11/2020	$6.94	$0.00	2.19%	1,568,457	$6.94	$6.95	$0.01	0.14%	52,080,077	$361,435,734
2/12/2020	$6.86	$0.00	-1.16%	1,922,115	$6.85	$6.86	$0.01	0.15%	52,080,077	$357,269,328
2/13/2020	$7.00	$0.00	2.02%	1,553,432	$6.99	$7.00	$0.01	0.14%	52,080,077	$364,560,539
2/14/2020	$7.10	$0.00	1.42%	1,706,158	$7.09	$7.10	$0.01	0.14%	52,080,077	$369,768,547
2/18/2020	$7.04	$0.00	-0.85%	2,143,451	$7.04	$7.05	$0.01	0.14%	52,080,077	$366,643,742
2/19/2020	$7.31	$0.00	3.76%	2,308,485	$7.30	$7.31	$0.01	0.14%	52,080,077	$380,705,363
2/20/2020	$7.76	$0.00	5.97%	3,649,063	$7.76	$7.77	$0.01	0.13%	52,080,077	$404,141,398
2/21/2020	$7.46	$0.00	-3.94%	3,035,195	$7.46	$7.47	$0.01	0.13%	52,472,503	$391,444,872
2/24/2020	$7.05	$0.00	-5.65%	3,210,933	$7.04	$7.05	$0.01	0.14%	52,472,503	$369,931,146
2/25/2020	$6.55	$0.00	-7.36%	4,180,967	$6.55	$6.56	$0.01	0.15%	52,472,503	$343,694,895
2/26/2020	$5.93	$0.00	-9.94%	7,181,255	$5.91	$5.92	$0.01	0.17%	52,472,503	$311,161,943
2/27/2020	$6.09	$0.00	2.66%	6,293,973	$6.07	$6.08	$0.01	0.16%	52,472,503	$319,557,543
2/28/2020	$6.26	$0.00	2.75%	7,556,372	$6.26	$6.27	$0.01	0.16%	52,472,503	$328,477,869
3/2/2020	$6.11	$0.00	-2.43%	4,585,413	$6.11	$6.12	$0.01	0.16%	52,472,503	$320,606,993
3/3/2020	$5.81	$0.00	-5.03%	3,842,979	$5.80	$5.81	$0.01	0.17%	52,472,503	$304,865,242
3/4/2020	$5.82	$0.00	0.17%	4,483,701	$5.82	$5.83	$0.01	0.17%	52,472,503	$305,389,967
3/5/2020	$4.92	$0.00	-16.80%	5,853,094	$4.91	$4.92	$0.01	0.20%	52,472,503	$258,164,715
3/6/2020	$4.53	$0.03	-7.60%	4,599,926	$4.52	$4.53	$0.01	0.22%	52,472,503	$237,700,439
3/9/2020	$3.85	$0.00	-16.26%	3,404,003	$3.84	$3.85	$0.01	0.26%	52,472,503	$202,019,137
3/10/2020	$4.20	$0.00	8.70%	3,686,953	$4.19	$4.20	$0.01	0.24%	52,472,503	$220,384,513
3/11/2020	$3.64	$0.00	-14.31%	4,080,272	$3.63	$3.64	$0.01	0.28%	52,472,503	$190,999,911
3/12/2020	$2.91	$0.00	-22.38%	8,058,027	$2.90	$2.91	$0.01	0.34%	52,472,503	$152,694,984
3/13/2020	$3.22	$0.00	10.12%	6,158,287	$3.21	$3.22	$0.01	0.31%	52,472,503	$168,961,460
3/16/2020	$2.60	$0.00	-21.39%	8,497,882	$2.60	$2.61	$0.01	0.38%	52,472,503	$136,428,508
3/17/2020	$2.48	$0.00	-4.73%	7,685,679	$2.47	$2.48	$0.01	0.40%	52,472,503	$130,131,807
3/18/2020	$2.47	$0.00	-0.40%	7,753,495	$2.48	$2.49	$0.01	0.40%	52,472,503	$129,607,082
3/19/2020	$3.37	$0.00	31.07%	8,614,592	$3.36	$3.37	$0.01	0.30%	52,472,503	$176,832,335
3/20/2020	$3.19	$0.00	-5.49%	5,753,982	$3.18	$3.19	$0.01	0.31%	52,472,503	$167,387,285
3/23/2020	$3.15	$0.00	-1.26%	6,481,282	$3.14	$3.15	$0.01	0.32%	52,472,503	$165,288,384
3/24/2020	$3.56	$0.00	12.24%	5,168,287	$3.54	$3.55	$0.01	0.28%	52,472,503	$186,802,111
3/25/2020	$3.46	$0.00	-2.85%	8,112,920	$3.39	$3.40	$0.01	0.29%	52,472,503	$181,554,860
3/26/2020	$3.70	$0.00	6.71%	5,104,322	$3.69	$3.70	$0.01	0.27%	52,472,503	$194,148,261
3/27/2020	$3.60	$0.00	-2.74%	3,431,371	$3.59	$3.60	$0.01	0.28%	52,472,503	$188,901,011
3/30/2020	$3.04	$0.00	-16.91%	4,219,670	$3.05	$3.06	$0.01	0.33%	52,472,503	$159,516,409
3/31/2020	$3.16	$0.00	3.87%	3,640,469	$3.15	$3.16	$0.01	0.32%	52,472,503	$165,813,109
4/1/2020	$2.62	$0.00	-18.74%	5,898,611	$2.62	$2.63	$0.01	0.38%	52,472,503	$137,477,958
4/2/2020	$2.24	$0.00	-15.67%	8,808,060	$2.23	$2.24	$0.01	0.45%	52,472,503	$117,538,407
4/3/2020	$2.27	$0.00	1.33%	7,493,379	$2.26	$2.27	$0.01	0.44%	52,472,503	$119,112,582
4/6/2020	$2.88	$0.00	23.80%	6,912,015	$2.86	$2.87	$0.01	0.35%	52,472,503	$151,120,809
4/7/2020	$3.14	$0.00	8.64%	8,977,051	$3.12	$3.13	$0.01	0.32%	52,472,503	$164,763,659
4/8/2020	$3.30	$0.00	4.97%	7,997,628	$3.25	$3.26	$0.01	0.31%	52,472,503	$173,159,260
4/9/2020	$2.60	$0.00	-23.84%	13,981,180	$2.59	$2.60	$0.01	0.39%	52,472,503	$136,428,508
4/13/2020	$2.08	$0.00	-22.31%	19,784,092	$2.06	$2.07	$0.01	0.48%	52,472,503	$109,142,806
4/14/2020	$2.18	$0.00	4.70%	11,747,929	$2.17	$2.18	$0.01	0.46%	52,472,503	$114,390,057
4/15/2020	$2.41	$0.00	10.03%	11,377,998	$2.40	$2.41	$0.01	0.42%	52,472,503	$126,458,732
4/16/2020	$2.44	$0.00	1.24%	6,290,822	$2.43	$2.44	$0.01	0.41%	52,472,503	$128,032,907
4/17/2020	$3.20	$0.00	27.12%	26,799,889	$3.20	$3.21	$0.01	0.31%	52,472,503	$167,912,010
4/20/2020	$3.18	$0.00	-0.63%	10,787,232	$3.18	$3.19	$0.01	0.31%	52,472,503	$166,862,560
4/21/2020	$3.25	$0.00	2.18%	5,788,407	$3.25	$3.26	$0.01	0.31%	52,472,503	$170,535,635

Exhibit-3a

AMC Market Efficiency Statistics

January 28, 2020 through January 27, 2021

Date	Closing Price [a]	Dividend [b]	Log Return [b]	Volume [c]	Closing Bid [d]	Closing Ask [e]	Closing Bid/Ask Spread	Average Bid/Ask Spread %	Outstanding Shares [f]	Market Capitalization [g]
4/22/2020	$3.18	$0.00	-2.18%	4,572,152	$3.17	$3.18	$0.01	0.31%	52,472,503	$166,862,560
4/23/2020	$3.11	$0.00	-2.23%	4,318,845	$3.09	$3.10	$0.01	0.32%	52,472,503	$163,189,484
4/24/2020	$3.05	$0.00	-1.95%	3,652,454	$3.05	$3.06	$0.01	0.33%	52,472,503	$160,041,134
4/27/2020	$3.36	$0.00	9.68%	5,667,215	$3.35	$3.36	$0.01	0.30%	52,472,503	$176,307,610
4/28/2020	$4.14	$0.00	20.88%	21,601,087	$4.14	$4.15	$0.01	0.24%	52,472,503	$217,236,162
4/29/2020	$5.19	$0.00	22.60%	27,162,376	$5.20	$5.21	$0.01	0.19%	52,472,503	$272,332,291
4/30/2020	$4.92	$0.00	-5.34%	11,235,643	$4.92	$4.93	$0.01	0.20%	52,472,503	$258,164,715
5/1/2020	$4.57	$0.00	-7.38%	6,746,774	$4.53	$4.54	$0.01	0.22%	52,472,503	$239,799,339
5/4/2020	$4.30	$0.00	-6.09%	5,601,427	$4.29	$4.30	$0.01	0.23%	52,472,503	$225,631,763
5/5/2020	$3.89	$0.00	-10.02%	7,504,517	$3.88	$3.89	$0.01	0.26%	52,472,503	$204,118,037
5/6/2020	$3.92	$0.00	0.77%	3,105,656	$3.92	$3.93	$0.01	0.25%	52,472,503	$205,692,212
5/7/2020	$3.99	$0.00	1.77%	4,110,313	$3.99	$4.00	$0.01	0.25%	52,472,503	$209,365,287
5/8/2020	$4.10	$0.00	2.72%	3,607,855	$4.09	$4.10	$0.01	0.24%	52,472,503	$215,137,262
5/11/2020	$5.32	$0.00	26.05%	106,553,326	$5.32	$5.33	$0.01	0.19%	52,472,503	$279,153,716
5/12/2020	$5.12	$0.00	-3.83%	19,681,891	$5.09	$5.10	$0.01	0.20%	52,472,503	$268,659,215
5/13/2020	$4.60	$0.00	-10.71%	10,433,364	$4.60	$4.61	$0.01	0.22%	52,472,503	$241,373,514
5/14/2020	$4.55	$0.00	-1.09%	5,920,537	$4.50	$4.51	$0.01	0.22%	52,472,503	$238,749,889
5/15/2020	$4.52	$0.00	-0.66%	3,483,157	$4.50	$4.51	$0.01	0.22%	52,472,503	$237,175,714
5/18/2020	$4.72	$0.00	4.33%	6,073,843	$4.70	$4.71	$0.01	0.21%	52,472,503	$247,670,214
5/19/2020	$4.56	$0.00	-3.45%	4,929,792	$4.55	$4.56	$0.01	0.22%	52,472,503	$239,274,614
5/20/2020	$4.66	$0.00	2.17%	3,489,476	$4.65	$4.66	$0.01	0.21%	52,472,503	$244,521,864
5/21/2020	$4.63	$0.00	-0.65%	4,555,029	$4.60	$4.61	$0.01	0.22%	52,472,503	$242,947,689
5/22/2020	$4.58	$0.00	-1.09%	2,408,834	$4.57	$4.58	$0.01	0.22%	52,472,503	$240,324,064
5/26/2020	$5.11	$0.00	10.95%	8,864,112	$5.10	$5.11	$0.01	0.20%	52,472,503	$268,134,490
5/27/2020	$5.60	$0.00	9.16%	7,862,371	$5.62	$5.63	$0.01	0.18%	52,472,503	$293,846,017
5/28/2020	$5.07	$0.00	-9.94%	6,604,395	$5.07	$5.08	$0.01	0.20%	52,472,503	$266,035,590
5/29/2020	$5.13	$0.00	1.18%	5,158,931	$5.16	$5.17	$0.01	0.19%	52,472,503	$269,183,940
6/1/2020	$5.31	$0.00	3.45%	3,913,113	$5.31	$5.32	$0.01	0.19%	52,472,503	$278,628,991
6/2/2020	$5.59	$0.00	5.14%	6,877,826	$5.64	$5.65	$0.01	0.18%	52,549,593	$293,752,225
6/3/2020	$5.45	$0.00	-2.54%	15,353,693	$5.44	$5.45	$0.01	0.18%	52,549,593	$286,395,282
6/4/2020	$5.38	$0.00	-1.29%	8,572,557	$5.38	$5.39	$0.01	0.19%	52,549,593	$282,716,810
6/5/2020	$5.91	$0.00	9.40%	9,240,931	$5.90	$5.91	$0.01	0.17%	52,549,593	$310,568,095
6/8/2020	$6.45	$0.00	8.74%	8,587,142	$6.45	$6.46	$0.01	0.15%	52,549,593	$338,944,875
6/9/2020	$5.99	$0.00	-7.40%	7,394,309	$5.98	$5.99	$0.01	0.17%	52,549,593	$314,772,062
6/10/2020	$6.29	$0.00	4.89%	15,322,626	$6.28	$6.29	$0.01	0.16%	52,549,593	$330,536,940
6/11/2020	$5.17	$0.00	-19.61%	9,179,401	$5.16	$5.17	$0.01	0.19%	52,549,593	$271,681,396
6/12/2020	$5.89	$0.00	13.04%	7,352,885	$5.88	$5.89	$0.01	0.17%	52,549,593	$309,517,103
6/15/2020	$5.80	$0.00	-1.54%	5,541,446	$5.79	$5.80	$0.01	0.17%	52,549,593	$304,787,639
6/16/2020	$5.56	$0.00	-4.23%	5,911,939	$5.55	$5.56	$0.01	0.18%	52,549,593	$292,175,737
6/17/2020	$5.42	$0.00	-2.55%	3,030,810	$5.42	$5.43	$0.01	0.18%	52,549,593	$284,818,794
6/18/2020	$5.63	$0.00	3.80%	5,619,724	$5.63	$5.64	$0.01	0.18%	52,549,593	$295,854,209
6/19/2020	$5.52	$0.00	-1.97%	13,137,394	$5.51	$5.52	$0.01	0.18%	52,549,593	$290,073,753
6/22/2020	$5.33	$0.00	-3.50%	4,412,845	$5.32	$5.33	$0.01	0.19%	52,549,593	$280,089,331
6/23/2020	$5.10	$0.00	-4.41%	5,699,306	$5.09	$5.10	$0.01	0.20%	52,549,593	$268,002,924
6/24/2020	$4.79	$0.00	-6.27%	8,104,133	$4.78	$4.79	$0.01	0.21%	52,549,593	$251,712,550
6/25/2020	$4.27	$0.00	-11.49%	8,251,419	$4.26	$4.27	$0.01	0.23%	52,549,593	$224,386,762
6/26/2020	$4.18	$0.00	-2.13%	5,601,002	$4.15	$4.16	$0.01	0.24%	52,549,593	$219,657,299
6/29/2020	$4.42	$0.00	5.58%	9,321,558	$4.42	$4.43	$0.01	0.23%	52,549,593	$232,269,201
6/30/2020	$4.29	$0.00	-2.99%	3,653,414	$4.27	$4.28	$0.01	0.23%	52,549,593	$225,437,754
7/1/2020	$4.57	$0.00	6.32%	4,914,525	$4.56	$4.57	$0.01	0.22%	52,549,593	$240,151,640
7/2/2020	$4.53	$0.00	-0.88%	3,908,373	$4.53	$4.54	$0.01	0.22%	52,549,593	$238,049,656
7/6/2020	$4.28	$0.00	-5.68%	5,489,739	$4.28	$4.29	$0.01	0.23%	52,549,593	$224,912,258
7/7/2020	$4.13	$0.00	-3.57%	2,667,634	$4.13	$4.14	$0.01	0.24%	52,549,593	$217,029,819
7/8/2020	$4.43	$0.00	7.01%	5,586,820	$4.43	$4.44	$0.01	0.23%	52,549,593	$232,794,697
7/9/2020	$4.57	$0.00	3.11%	4,225,655	$4.56	$4.57	$0.01	0.22%	52,549,593	$240,151,640
7/10/2020	$4.60	$0.00	0.65%	3,306,121	$4.58	$4.59	$0.01	0.22%	52,549,593	$241,728,128
7/13/2020	$4.26	$0.00	-7.68%	4,464,782	$4.25	$4.26	$0.01	0.24%	52,549,593	$223,861,266
7/14/2020	$4.22	$0.00	-0.94%	3,291,433	$4.20	$4.21	$0.01	0.24%	52,549,593	$221,759,282
7/15/2020	$4.50	$0.00	6.42%	4,830,736	$4.50	$4.51	$0.01	0.22%	52,549,593	$236,473,169

Exhibit-3a

AMC Market Efficiency Statistics

January 28, 2020 through January 27, 2021

Date	Closing Price [a]	Dividend [b]	Log Return [b]	Volume [c]	Closing Bid [d]	Closing Ask [e]	Closing Bid/Ask Spread	Average Bid/Ask Spread %	Outstanding Shares [f]	Market Capitalization [g]
7/16/2020	$4.38	$0.00	-2.70%	1,997,485	$4.38	$4.39	$0.01	0.23%	52,549,593	$230,167,217
7/17/2020	$4.27	$0.00	-2.54%	2,105,464	$4.27	$4.28	$0.01	0.23%	52,549,593	$224,386,762
7/20/2020	$4.15	$0.00	-2.85%	2,393,094	$4.15	$4.16	$0.01	0.24%	52,549,593	$218,080,811
7/21/2020	$4.15	$0.00	0.00%	1,932,022	$4.14	$4.15	$0.01	0.24%	52,549,593	$218,080,811
7/22/2020	$4.03	$0.00	-2.93%	2,798,769	$4.03	$4.04	$0.01	0.25%	52,549,593	$211,774,860
7/23/2020	$4.06	$0.00	0.74%	3,614,295	$4.05	$4.06	$0.01	0.25%	52,549,593	$213,351,348
7/24/2020	$4.00	$0.00	-1.49%	3,282,351	$4.00	$4.01	$0.01	0.25%	52,549,593	$210,198,372
7/27/2020	$3.87	$0.00	-3.30%	2,980,499	$3.86	$3.87	$0.01	0.26%	52,549,593	$203,366,925
7/28/2020	$4.15	$0.00	6.99%	6,226,584	$4.14	$4.15	$0.01	0.24%	52,549,593	$218,080,811
7/29/2020	$4.16	$0.00	0.24%	5,489,414	$4.15	$4.16	$0.01	0.24%	52,549,593	$218,606,307
7/30/2020	$4.12	$0.00	-0.97%	3,699,061	$4.11	$4.12	$0.01	0.24%	52,549,593	$216,504,323
7/31/2020	$4.04	$0.00	-1.96%	2,592,848	$4.03	$4.04	$0.01	0.25%	52,549,593	$212,300,356
8/3/2020	$4.11	$0.00	1.72%	4,048,779	$4.10	$4.11	$0.01	0.24%	57,549,593	$236,528,827
8/4/2020	$4.10	$0.00	-0.24%	3,267,795	$4.09	$4.10	$0.01	0.24%	57,549,593	$235,953,331
8/5/2020	$4.15	$0.00	1.21%	1,702,312	$4.15	$4.16	$0.01	0.24%	57,549,593	$238,830,811
8/6/2020	$4.14	$0.00	-0.24%	3,742,639	$4.12	$4.13	$0.01	0.24%	57,549,593	$238,255,315
8/7/2020	$4.75	$0.00	13.74%	24,917,444	$4.74	$4.75	$0.01	0.21%	57,549,593	$273,360,567
8/10/2020	$4.47	$0.00	-6.08%	5,048,156	$4.47	$4.48	$0.01	0.22%	57,549,593	$257,246,681
8/11/2020	$4.56	$0.00	1.99%	5,794,835	$4.56	$4.57	$0.01	0.22%	57,549,593	$262,426,144
8/12/2020	$4.64	$0.00	1.74%	2,466,462	$4.63	$4.64	$0.01	0.22%	57,549,593	$267,030,112
8/13/2020	$5.31	$0.00	13.49%	23,259,216	$5.30	$5.31	$0.01	0.19%	57,549,593	$305,588,339
8/14/2020	$5.54	$0.00	4.24%	12,055,836	$5.53	$5.54	$0.01	0.18%	57,549,593	$318,824,745
8/17/2020	$5.60	$0.00	1.08%	7,159,171	$5.60	$5.61	$0.01	0.18%	57,549,593	$322,277,721
8/18/2020	$5.35	$0.00	-4.57%	5,790,682	$5.34	$5.35	$0.01	0.19%	57,549,593	$307,890,323
8/19/2020	$5.39	$0.00	0.74%	5,728,301	$5.38	$5.39	$0.01	0.19%	57,549,593	$310,192,306
8/20/2020	$5.69	$0.00	5.42%	13,728,403	$5.68	$5.69	$0.01	0.18%	57,549,593	$327,457,184
8/21/2020	$5.19	$0.00	-9.20%	8,216,874	$5.18	$5.20	$0.02	0.39%	57,549,593	$298,682,388
8/24/2020	$5.41	$0.00	4.15%	8,498,191	$5.41	$5.42	$0.01	0.18%	57,549,593	$311,343,298
8/25/2020	$5.54	$0.00	2.37%	5,296,893	$5.53	$5.54	$0.01	0.18%	57,549,593	$318,824,745
8/26/2020	$5.60	$0.00	1.08%	4,419,399	$5.59	$5.60	$0.01	0.18%	57,549,593	$322,277,721
8/27/2020	$6.52	$0.00	15.21%	31,921,159	$6.51	$6.52	$0.01	0.15%	57,549,593	$375,223,346
8/28/2020	$6.30	$0.00	-3.43%	9,903,997	$6.29	$6.30	$0.01	0.16%	57,549,593	$362,562,436
8/31/2020	$5.88	$0.00	-6.90%	9,820,238	$5.88	$5.90	$0.02	0.34%	57,549,593	$338,391,607
9/1/2020	$6.07	$0.00	3.18%	9,709,376	$6.07	$6.08	$0.01	0.16%	57,549,593	$349,326,030
9/2/2020	$7.04	$0.00	14.82%	43,056,236	$7.02	$7.03	$0.01	0.14%	57,549,593	$405,149,135
9/3/2020	$6.60	$0.00	-6.45%	10,626,608	$6.60	$6.61	$0.01	0.15%	57,549,593	$379,827,314
9/4/2020	$7.02	$0.00	6.17%	9,328,807	$7.01	$7.02	$0.01	0.14%	57,549,593	$403,998,143
9/8/2020	$6.42	$0.00	-8.93%	6,667,449	$6.41	$6.42	$0.01	0.16%	57,549,593	$369,468,387
9/9/2020	$6.26	$0.00	-2.52%	5,578,212	$6.26	$6.27	$0.01	0.16%	57,549,593	$360,260,452
9/10/2020	$5.94	$0.00	-5.25%	5,881,820	$5.93	$5.94	$0.01	0.17%	57,549,593	$341,844,582
9/11/2020	$5.79	$0.00	-2.56%	4,863,006	$5.79	$5.80	$0.01	0.17%	57,549,593	$333,212,143
9/14/2020	$5.54	$0.00	-4.41%	4,638,082	$5.53	$5.54	$0.01	0.18%	57,549,593	$318,824,745
9/15/2020	$5.52	$0.00	-0.36%	5,099,315	$5.52	$5.53	$0.01	0.18%	57,549,593	$317,673,753
9/16/2020	$5.76	$0.00	4.26%	4,390,816	$5.76	$5.77	$0.01	0.17%	57,549,593	$331,485,656
9/17/2020	$5.72	$0.00	-0.70%	2,619,665	$5.71	$5.72	$0.01	0.17%	57,549,593	$329,183,672
9/18/2020	$5.67	$0.00	-0.88%	2,428,464	$5.66	$5.67	$0.01	0.18%	57,549,593	$326,306,192
9/21/2020	$5.32	$0.00	-6.37%	4,563,153	$5.32	$5.33	$0.01	0.19%	57,549,593	$306,163,835
9/22/2020	$5.21	$0.00	-2.09%	2,090,061	$5.20	$5.21	$0.01	0.19%	57,549,593	$299,833,380
9/23/2020	$4.78	$0.00	-8.61%	4,285,151	$4.77	$4.78	$0.01	0.21%	57,549,593	$275,087,055
9/24/2020	$4.61	$0.00	-3.62%	4,569,670	$4.60	$4.61	$0.01	0.22%	57,549,593	$265,303,624
9/25/2020	$4.88	$0.00	5.69%	2,375,454	$4.88	$4.89	$0.01	0.20%	57,549,593	$280,842,014
9/28/2020	$4.91	$0.00	0.61%	4,676,540	$4.91	$4.92	$0.01	0.20%	57,549,593	$282,568,502
9/29/2020	$4.86	$0.00	-1.02%	2,521,765	$4.86	$4.87	$0.01	0.21%	57,549,593	$279,691,022
9/30/2020	$4.71	$0.00	-3.14%	2,515,422	$4.70	$4.71	$0.01	0.21%	58,149,593	$273,884,583
10/1/2020	$4.65	$0.00	-1.28%	3,223,808	$4.65	$4.66	$0.01	0.21%	58,149,593	$270,395,607
10/2/2020	$4.65	$0.00	0.00%	3,575,994	$4.65	$4.66	$0.01	0.21%	58,149,593	$270,395,607
10/5/2020	$4.13	$0.00	-11.86%	9,468,797	$4.12	$4.13	$0.01	0.24%	58,149,593	$240,157,819
10/6/2020	$4.06	$0.00	-1.71%	8,404,181	$4.05	$4.06	$0.01	0.25%	58,149,593	$236,087,348
10/7/2020	$4.04	$0.00	-0.49%	6,917,700	$4.03	$4.04	$0.01	0.25%	58,149,593	$234,924,356

Exhibit-3a

AMC Market Efficiency Statistics

January 28, 2020 through January 27, 2021

Date	Closing Price	Dividend	Log Return	Volume	Closing Bid	Closing Ask	Closing Bid/Ask Spread	Average Bid/Ask Spread %	Outstanding Shares	Market Capitalization
	[a]	[b]	[b]	[c]	[d]	[e]			[f]	[g]
10/8/2020	$4.14	$0.00	2.45%	7,868,481	$4.13	$4.14	$0.01	0.24%	58,149,593	$240,739,315
10/9/2020	$4.05	$0.00	-2.20%	5,021,406	$4.05	$4.06	$0.01	0.25%	58,149,593	$235,505,852
10/12/2020	$4.08	$0.00	0.74%	3,245,671	$4.07	$4.08	$0.01	0.25%	58,149,593	$237,250,339
10/13/2020	$3.54	$0.00	-14.20%	10,164,744	$3.54	$3.55	$0.01	0.28%	58,149,593	$205,849,559
10/14/2020	$2.96	$0.00	-17.89%	31,761,265	$2.93	$2.94	$0.01	0.34%	58,149,593	$172,122,795
10/15/2020	$2.78	$0.00	-6.27%	9,808,591	$2.77	$2.78	$0.01	0.36%	58,149,593	$161,655,869
10/16/2020	$3.04	$0.00	8.94%	18,565,805	$3.03	$3.04	$0.01	0.33%	58,149,593	$176,774,763
10/19/2020	$3.54	$0.00	15.23%	40,385,068	$3.54	$3.55	$0.01	0.28%	58,149,593	$205,849,559
10/20/2020	$3.09	$0.00	-13.60%	15,978,782	$3.08	$3.09	$0.01	0.32%	58,149,593	$179,682,242
10/21/2020	$3.00	$0.00	-2.96%	7,277,305	$2.99	$3.00	$0.01	0.33%	58,149,593	$174,448,779
10/22/2020	$3.12	$0.00	3.92%	12,339,596	$3.11	$3.12	$0.01	0.32%	58,149,593	$181,426,730
10/23/2020	$2.97	$0.00	-4.93%	6,634,962	$2.97	$2.98	$0.01	0.34%	58,149,593	$172,704,291
10/26/2020	$2.75	$0.00	-7.70%	10,458,790	$2.75	$2.76	$0.01	0.36%	58,149,593	$159,911,381
10/27/2020	$2.79	$0.00	1.44%	11,251,269	$2.79	$2.80	$0.01	0.36%	58,149,593	$162,237,364
10/28/2020	$2.61	$0.00	-6.67%	8,141,103	$2.60	$2.61	$0.01	0.38%	58,149,593	$151,770,438
10/29/2020	$2.52	$0.00	-3.51%	9,019,304	$2.51	$2.52	$0.01	0.40%	58,149,593	$146,536,974
10/30/2020	$2.36	$0.00	-6.56%	11,013,232	$2.35	$2.36	$0.01	0.42%	85,624,174	$202,073,051
11/2/2020	$2.15	$0.00	-9.32%	11,180,071	$2.14	$2.15	$0.01	0.47%	85,624,174	$184,091,974
11/3/2020	$2.34	$0.00	8.47%	15,441,929	$2.33	$2.34	$0.01	0.43%	85,624,174	$200,360,567
11/4/2020	$2.31	$0.00	-1.29%	7,609,136	$2.31	$2.32	$0.01	0.43%	85,624,174	$197,791,842
11/5/2020	$2.46	$0.00	6.29%	8,056,242	$2.46	$2.47	$0.01	0.41%	85,624,174	$210,635,468
11/6/2020	$2.49	$0.00	1.21%	9,049,450	$2.49	$2.50	$0.01	0.40%	85,624,174	$213,204,193
11/9/2020	$3.77	$0.00	41.48%	132,510,953	$3.77	$3.78	$0.01	0.26%	85,624,174	$322,803,136
11/10/2020	$3.51	$0.00	-7.15%	42,129,263	$3.50	$3.51	$0.01	0.29%	85,624,174	$300,540,851
11/11/2020	$3.13	$0.00	-11.46%	24,066,098	$3.12	$3.13	$0.01	0.32%	85,624,174	$268,003,665
11/12/2020	$2.94	$0.00	-6.26%	14,836,046	$2.93	$2.94	$0.01	0.34%	85,624,174	$251,735,072
11/13/2020	$2.97	$0.00	1.02%	22,451,870	$2.96	$2.97	$0.01	0.34%	85,624,174	$254,303,797
11/16/2020	$3.11	$0.00	4.61%	47,604,346	$3.10	$3.11	$0.01	0.32%	85,624,174	$266,291,181
11/17/2020	$2.98	$0.00	-4.27%	22,482,959	$2.97	$2.98	$0.01	0.34%	85,624,174	$255,160,039
11/18/2020	$3.26	$0.00	8.98%	31,717,281	$3.25	$3.26	$0.01	0.31%	85,624,174	$279,134,807
11/19/2020	$3.19	$0.00	-2.17%	13,986,442	$3.18	$3.19	$0.01	0.31%	85,624,174	$273,141,115
11/20/2020	$3.35	$0.00	4.89%	17,088,783	$3.35	$3.36	$0.01	0.30%	85,624,174	$286,840,983
11/23/2020	$3.81	$0.00	12.87%	31,514,579	$3.79	$3.80	$0.01	0.26%	85,624,174	$326,228,103
11/24/2020	$4.58	$0.00	18.41%	62,884,604	$4.57	$4.58	$0.01	0.22%	85,624,174	$392,158,717
11/25/2020	$4.49	$0.00	-1.98%	22,647,306	$4.48	$4.49	$0.01	0.22%	85,624,174	$384,452,541
11/27/2020	$4.45	$0.00	-0.89%	10,097,374	$4.43	$4.44	$0.01	0.23%	85,624,174	$381,027,574
11/30/2020	$4.27	$0.00	-4.13%	16,554,987	$4.26	$4.27	$0.01	0.23%	85,624,174	$365,615,223
12/1/2020	$4.15	$0.00	-2.85%	12,293,499	$4.10	$4.11	$0.01	0.24%	85,624,174	$355,340,322
12/2/2020	$4.32	$0.00	4.01%	11,847,629	$4.31	$4.32	$0.01	0.23%	85,624,174	$369,896,432
12/3/2020	$3.63	$0.00	-17.40%	66,080,891	$3.62	$3.63	$0.01	0.28%	85,624,174	$310,815,752
12/4/2020	$3.51	$0.00	-3.36%	33,157,263	$3.50	$3.51	$0.01	0.29%	85,624,174	$300,540,851
12/7/2020	$3.56	$0.00	1.41%	20,503,852	$3.56	$3.57	$0.01	0.28%	85,624,174	$304,822,059
12/8/2020	$3.98	$0.00	11.15%	29,530,632	$3.97	$3.98	$0.01	0.25%	85,624,174	$340,784,213
12/9/2020	$3.86	$0.00	-3.06%	20,991,197	$3.86	$3.87	$0.01	0.26%	85,624,174	$330,509,312
12/10/2020	$4.09	$0.00	5.79%	19,872,845	$4.08	$4.09	$0.01	0.24%	85,624,174	$350,202,872
12/11/2020	$3.92	$0.00	-4.25%	22,310,377	$3.92	$3.93	$0.01	0.25%	85,624,174	$335,646,762
12/14/2020	$3.19	$0.00	-20.61%	67,158,976	$3.19	$3.20	$0.01	0.31%	108,898,373	$347,385,810
12/15/2020	$2.86	$0.00	-10.92%	54,432,125	$2.86	$2.87	$0.01	0.35%	108,898,373	$311,449,347
12/16/2020	$2.78	$0.00	-2.84%	25,423,239	$2.77	$2.78	$0.01	0.36%	108,898,373	$302,737,477
12/17/2020	$2.85	$0.00	2.49%	23,799,298	$2.83	$2.84	$0.01	0.35%	108,898,373	$310,360,363
12/18/2020	$2.80	$0.00	-1.77%	21,941,652	$2.78	$2.79	$0.01	0.36%	108,898,373	$304,915,444
12/21/2020	$2.68	$0.00	-4.38%	22,699,798	$2.67	$2.68	$0.01	0.37%	108,898,373	$291,847,640
12/22/2020	$2.59	$0.00	-3.42%	21,686,612	$2.58	$2.59	$0.01	0.39%	108,898,373	$282,046,786
12/23/2020	$2.56	$0.00	-1.17%	15,724,765	$2.55	$2.56	$0.01	0.39%	108,898,373	$278,779,835
12/24/2020	$2.51	$0.00	-1.97%	11,094,189	$2.51	$2.52	$0.01	0.40%	108,898,373	$273,334,916
12/28/2020	$2.39	$0.00	-4.90%	23,942,699	$2.38	$2.39	$0.01	0.42%	108,898,373	$260,267,111
12/29/2020	$2.29	$0.00	-4.27%	21,086,148	$2.29	$2.30	$0.01	0.44%	108,898,373	$249,377,274
12/30/2020	$2.16	$0.00	-5.84%	40,278,438	$2.15	$2.16	$0.01	0.46%	108,898,373	$235,220,486
12/31/2020	$2.12	$0.00	-1.87%	28,234,251	$2.11	$2.12	$0.01	0.47%	172,563,249	$365,834,088

Exhibit-3a

AMC Market Efficiency Statistics

January 28, 2020 through January 27, 2021

Date	Closing Price [a]	Dividend [b]	Log Return [b]	Volume [c]	Closing Bid [d]	Closing Ask [e]	Closing Bid/Ask Spread	Average Bid/Ask Spread %	Outstanding Shares [f]	Market Capitalization [g]
1/4/2021	$2.01	$0.00	-5.33%	29,873,796	$2.01	$2.02	$0.01	0.50%	172,563,249	$346,852,130
1/5/2021	$1.98	$0.00	-1.50%	28,148,314	$1.98	$1.99	$0.01	0.50%	172,563,249	$341,675,233
1/6/2021	$2.01	$0.00	1.50%	67,363,337	$2.01	$2.02	$0.01	0.50%	172,563,249	$346,852,130
1/7/2021	$2.05	$0.00	1.97%	26,150,489	$2.05	$2.06	$0.01	0.49%	172,563,249	$353,754,660
1/8/2021	$2.14	$0.00	4.30%	39,553,343	$2.13	$2.14	$0.01	0.47%	172,563,249	$369,285,353
1/11/2021	$2.20	$0.00	2.77%	41,695,836	$2.19	$2.20	$0.01	0.46%	172,563,249	$379,639,148
1/12/2021	$2.29	$0.00	4.01%	41,784,333	$2.28	$2.29	$0.01	0.44%	172,563,249	$395,169,840
1/13/2021	$2.18	$0.00	-4.92%	45,847,659	$2.17	$2.18	$0.01	0.46%	172,563,249	$376,187,883
1/14/2021	$2.18	$0.00	0.00%	49,638,794	$2.17	$2.18	$0.01	0.46%	172,563,249	$376,187,883
1/15/2021	$2.33	$0.00	6.65%	162,356,375	$2.32	$2.33	$0.01	0.43%	172,563,249	$402,072,370
1/19/2021	$3.06	$0.00	27.25%	256,276,010	$3.05	$3.06	$0.01	0.33%	172,563,249	$528,043,542
1/20/2021	$2.97	$0.00	-2.99%	181,862,210	$2.96	$2.97	$0.01	0.34%	172,563,249	$512,512,850
1/21/2021	$2.98	$0.00	0.34%	64,823,844	$2.97	$2.98	$0.01	0.34%	172,563,249	$514,238,482
1/22/2021	$3.51	$0.00	16.37%	268,273,367	$3.51	$3.52	$0.01	0.28%	172,563,249	$605,697,004
1/25/2021	$4.42	$0.00	23.05%	443,238,115	$4.40	$4.41	$0.01	0.23%	172,563,249	$762,729,561
1/26/2021	$4.96	$0.00	11.53%	456,850,232	$4.94	$4.95	$0.01	0.20%	172,563,249	$855,913,715
1/27/2021	$19.90	$0.00	138.93%	1,253,254,000	$19.83	$19.89	$0.06	0.30%	172,563,249	$3,434,008,655
Average	$4.38	$0.00	0.45%	24,199,684	$4.37	$4.38	$0.01	0.26%	68,927,026	$287.3 million
Median	$4.20	$0.00	-0.94%	7,181,255	$4.19	$4.20	$0.01	0.24%	52,549,593	$270.4 million
High	$19.90	$0.03	138.93%	1,253,254,000	$19.83	$19.89	$0.06	0.50%	172,563,249	$3,434.0 million
Low	$1.98	$0.00	-23.84%	1,360,325	$1.98	$1.99	$0.01	0.13%	52,080,077	$109.1 million

Source: CRSP & SEC Filings.

Exhibit-3b

BB Market Efficiency Statistics

January 28, 2020 through January 27, 2021

Date	Closing Price [a]	Dividend [b]	Log Return [b]	Volume [c]	Closing Bid [d]	Closing Ask [e]	Closing Bid/Ask Spread	Average Bid/Ask Spread %	Outstanding Shares [f]	Market Capitalization [g]
1/28/2020	$6.41	$0.00	2.37%	2,408,726	$6.41	$6.42	$0.01	0.16%	552,132,000	$3,539,166,120
1/29/2020	$6.34	$0.00	-1.10%	1,906,674	$6.34	$6.35	$0.01	0.16%	552,132,000	$3,500,516,880
1/30/2020	$6.24	$0.00	-1.59%	3,412,360	$6.24	$6.25	$0.01	0.16%	552,132,000	$3,445,303,680
1/31/2020	$6.10	$0.00	-2.27%	3,795,365	$6.09	$6.10	$0.01	0.16%	552,132,000	$3,368,005,200
2/3/2020	$6.21	$0.00	1.79%	3,790,705	$6.20	$6.21	$0.01	0.16%	552,132,000	$3,428,739,720
2/4/2020	$6.15	$0.00	-0.97%	7,154,668	$6.14	$6.15	$0.01	0.16%	552,132,000	$3,395,611,800
2/5/2020	$6.20	$0.00	0.81%	5,955,841	$6.20	$6.21	$0.01	0.16%	552,132,000	$3,423,218,400
2/6/2020	$6.13	$0.00	-1.14%	3,650,648	$6.13	$6.14	$0.01	0.16%	552,132,000	$3,384,569,160
2/7/2020	$6.02	$0.00	-1.81%	4,757,846	$6.02	$6.03	$0.01	0.17%	552,132,000	$3,323,834,640
2/10/2020	$6.05	$0.00	0.50%	3,873,618	$6.05	$6.06	$0.01	0.17%	552,132,000	$3,340,398,600
2/11/2020	$6.19	$0.00	2.29%	6,154,985	$6.19	$6.20	$0.01	0.16%	552,132,000	$3,417,697,080
2/12/2020	$6.07	$0.00	-1.96%	4,635,036	$6.07	$6.08	$0.01	0.16%	552,132,000	$3,351,441,240
2/13/2020	$6.00	$0.00	-1.16%	3,319,459	$5.99	$6.00	$0.01	0.17%	552,132,000	$3,312,792,000
2/14/2020	$5.83	$0.00	-2.87%	5,093,985	$5.82	$5.83	$0.01	0.17%	552,132,000	$3,218,929,560
2/18/2020	$6.09	$0.00	4.36%	13,150,626	$6.09	$6.10	$0.01	0.16%	552,132,000	$3,362,483,880
2/19/2020	$6.15	$0.00	0.98%	6,265,093	$6.14	$6.15	$0.01	0.16%	552,132,000	$3,395,611,800
2/20/2020	$6.16	$0.00	0.16%	4,414,264	$6.15	$6.16	$0.01	0.16%	552,132,000	$3,401,133,120
2/21/2020	$6.01	$0.00	-2.47%	3,272,395	$6.00	$6.01	$0.01	0.17%	552,132,000	$3,318,313,320
2/24/2020	$5.76	$0.00	-4.25%	5,541,683	$5.75	$5.76	$0.01	0.17%	552,132,000	$3,180,280,320
2/25/2020	$5.50	$0.00	-4.62%	9,081,546	$5.50	$5.51	$0.01	0.18%	552,132,000	$3,036,726,000
2/26/2020	$5.47	$0.00	-0.55%	6,546,410	$5.48	$5.49	$0.01	0.18%	552,132,000	$3,020,162,040
2/27/2020	$5.14	$0.00	-6.22%	7,885,515	$5.13	$5.14	$0.01	0.19%	552,132,000	$2,837,958,480
2/28/2020	$5.17	$0.00	0.58%	7,500,200	$5.17	$5.18	$0.01	0.19%	552,132,000	$2,854,522,440
3/2/2020	$5.08	$0.00	-1.76%	6,395,010	$5.07	$5.08	$0.01	0.20%	552,132,000	$2,804,830,560
3/3/2020	$4.93	$0.00	-3.00%	6,645,110	$4.92	$4.93	$0.01	0.20%	552,132,000	$2,722,010,760
3/4/2020	$4.92	$0.00	-0.20%	8,415,656	$4.91	$4.92	$0.01	0.20%	552,132,000	$2,716,489,440
3/5/2020	$4.67	$0.00	-5.21%	7,690,564	$4.66	$4.67	$0.01	0.21%	552,132,000	$2,578,456,440
3/6/2020	$4.44	$0.00	-5.05%	10,202,244	$4.43	$4.44	$0.01	0.23%	552,132,000	$2,451,466,080
3/9/2020	$3.85	$0.00	-14.26%	13,138,991	$3.85	$3.86	$0.01	0.26%	552,132,000	$2,125,708,200
3/10/2020	$4.20	$0.00	8.70%	9,966,285	$4.19	$4.20	$0.01	0.24%	552,132,000	$2,318,954,400
3/11/2020	$4.16	$0.00	-0.96%	13,680,830	$4.16	$4.17	$0.01	0.24%	552,132,000	$2,296,869,120
3/12/2020	$3.70	$0.00	-11.72%	10,503,526	$3.69	$3.70	$0.01	0.27%	552,132,000	$2,042,888,400
3/13/2020	$4.38	$0.00	16.87%	11,567,855	$4.38	$4.39	$0.01	0.23%	552,132,000	$2,418,338,160
3/16/2020	$3.39	$0.00	-25.62%	13,485,182	$3.38	$3.39	$0.01	0.30%	552,132,000	$1,871,727,480
3/17/2020	$2.90	$0.00	-15.61%	18,660,401	$2.89	$2.90	$0.01	0.35%	552,132,000	$1,601,182,800
3/18/2020	$3.18	$0.00	9.22%	9,992,944	$3.17	$3.18	$0.01	0.31%	552,132,000	$1,755,779,760
3/19/2020	$3.26	$0.00	2.48%	6,861,250	$3.26	$3.27	$0.01	0.31%	552,132,000	$1,799,950,320
3/20/2020	$3.38	$0.00	3.61%	8,340,609	$3.37	$3.38	$0.01	0.30%	552,132,000	$1,866,206,160
3/23/2020	$3.44	$0.00	1.76%	6,762,626	$3.43	$3.44	$0.01	0.29%	552,132,000	$1,899,334,080
3/24/2020	$3.62	$0.00	5.10%	5,548,704	$3.61	$3.62	$0.01	0.28%	552,132,000	$1,998,717,840
3/25/2020	$3.76	$0.00	3.79%	6,433,885	$3.77	$3.78	$0.01	0.26%	552,132,000	$2,076,016,320
3/26/2020	$3.93	$0.00	4.42%	5,852,673	$3.93	$3.94	$0.01	0.25%	554,226,702	$2,178,110,939
3/27/2020	$3.81	$0.00	-3.10%	3,833,627	$3.79	$3.80	$0.01	0.26%	554,226,702	$2,111,603,735
3/30/2020	$3.91	$0.00	2.59%	4,092,357	$3.91	$3.92	$0.01	0.26%	554,226,702	$2,167,026,405
3/31/2020	$4.13	$0.00	5.47%	7,443,025	$4.10	$4.12	$0.02	0.49%	554,226,702	$2,288,956,279
4/1/2020	$3.36	$0.00	-20.63%	11,581,259	$3.35	$3.36	$0.01	0.30%	554,226,702	$1,862,201,719
4/2/2020	$3.23	$0.00	-3.95%	9,663,751	$3.23	$3.24	$0.01	0.31%	554,226,702	$1,790,152,247
4/3/2020	$3.22	$0.00	-0.31%	5,268,114	$3.21	$3.22	$0.01	0.31%	554,226,702	$1,784,609,980
4/6/2020	$3.48	$0.00	7.77%	10,518,059	$3.47	$3.48	$0.01	0.29%	554,226,702	$1,928,708,923
4/7/2020	$3.61	$0.00	3.67%	6,674,615	$3.61	$3.62	$0.01	0.28%	554,226,702	$2,000,758,394
4/8/2020	$3.84	$0.00	6.18%	6,287,587	$3.84	$3.85	$0.01	0.26%	554,226,702	$2,128,230,536
4/9/2020	$3.76	$0.00	-2.11%	5,733,937	$3.75	$3.76	$0.01	0.27%	554,226,702	$2,083,892,400
4/13/2020	$3.86	$0.00	2.62%	6,801,189	$3.86	$3.87	$0.01	0.26%	554,226,702	$2,139,315,070
4/14/2020	$4.00	$0.00	3.56%	4,396,977	$3.99	$4.00	$0.01	0.25%	554,226,702	$2,216,906,808
4/15/2020	$3.70	$0.00	-7.80%	4,168,948	$3.70	$3.71	$0.01	0.27%	554,226,702	$2,050,638,797
4/16/2020	$4.01	$0.00	8.05%	8,747,518	$4.01	$4.02	$0.01	0.25%	554,226,702	$2,222,449,075
4/17/2020	$4.27	$0.00	6.28%	7,456,606	$4.27	$4.28	$0.01	0.23%	554,226,702	$2,366,548,018
4/20/2020	$4.09	$0.00	-4.31%	5,220,618	$4.08	$4.09	$0.01	0.24%	554,226,702	$2,266,787,211
4/21/2020	$3.92	$0.00	-4.25%	4,442,001	$3.91	$3.92	$0.01	0.26%	554,226,702	$2,172,568,672

Exhibit-3b

BB Market Efficiency Statistics

January 28, 2020 through January 27, 2021

Date	Closing Price	Dividend	Log Return	Volume	Closing Bid	Closing Ask	Closing Bid/Ask Spread	Average Bid/Ask Spread %	Outstanding Shares	Market Capitalization
	[a]	[b]	[b]	[c]	[d]	[e]			[f]	[g]
4/22/2020	$3.90	$0.00	-0.51%	4,220,995	$3.89	$3.90	$0.01	0.26%	554,226,702	$2,161,484,138
4/23/2020	$4.01	$0.00	2.78%	4,446,305	$3.99	$4.00	$0.01	0.25%	554,226,702	$2,222,449,075
4/24/2020	$4.04	$0.00	0.75%	3,716,880	$4.03	$4.04	$0.01	0.25%	554,226,702	$2,239,075,876
4/27/2020	$4.26	$0.00	5.30%	4,374,350	$4.25	$4.26	$0.01	0.24%	554,226,702	$2,361,005,751
4/28/2020	$4.21	$0.00	-1.18%	3,509,282	$4.21	$4.22	$0.01	0.24%	554,226,702	$2,333,294,415
4/29/2020	$4.37	$0.00	3.73%	4,752,616	$4.37	$4.38	$0.01	0.23%	554,226,702	$2,421,970,688
4/30/2020	$4.28	$0.00	-2.08%	2,819,126	$4.28	$4.29	$0.01	0.23%	554,226,702	$2,372,090,285
5/1/2020	$4.07	$0.00	-5.03%	5,532,259	$4.07	$4.08	$0.01	0.25%	554,226,702	$2,255,702,677
5/4/2020	$4.26	$0.00	4.56%	4,808,744	$4.26	$4.27	$0.01	0.23%	554,226,702	$2,361,005,751
5/5/2020	$4.27	$0.00	0.23%	4,529,384	$4.27	$4.28	$0.01	0.23%	554,226,702	$2,366,548,018
5/6/2020	$4.49	$0.00	5.02%	5,931,359	$4.49	$4.50	$0.01	0.22%	554,226,702	$2,488,477,892
5/7/2020	$4.60	$0.00	2.42%	6,126,711	$4.59	$4.60	$0.01	0.22%	554,226,702	$2,549,442,829
5/8/2020	$4.71	$0.00	2.36%	4,837,014	$4.70	$4.71	$0.01	0.21%	554,226,702	$2,610,407,766
5/11/2020	$4.58	$0.00	-2.80%	3,858,857	$4.58	$4.59	$0.01	0.22%	554,226,702	$2,538,358,295
5/12/2020	$4.50	$0.00	-1.76%	4,234,291	$4.50	$4.51	$0.01	0.22%	554,226,702	$2,494,020,159
5/13/2020	$4.46	$0.00	-0.89%	7,800,722	$4.46	$4.47	$0.01	0.22%	554,226,702	$2,471,851,091
5/14/2020	$4.46	$0.00	0.00%	5,701,985	$4.46	$4.47	$0.01	0.22%	554,226,702	$2,471,851,091
5/15/2020	$4.42	$0.00	-0.90%	3,104,406	$4.42	$4.43	$0.01	0.23%	554,226,702	$2,449,682,023
5/18/2020	$4.49	$0.00	1.57%	3,880,309	$4.48	$4.49	$0.01	0.22%	554,226,702	$2,488,477,892
5/19/2020	$4.49	$0.00	0.00%	3,895,942	$4.50	$4.51	$0.01	0.22%	554,226,702	$2,488,477,892
5/20/2020	$4.65	$0.00	3.50%	3,835,977	$4.65	$4.66	$0.01	0.21%	554,226,702	$2,577,154,164
5/21/2020	$4.54	$0.00	-2.39%	3,137,206	$4.54	$4.55	$0.01	0.22%	554,226,702	$2,516,189,227
5/22/2020	$4.54	$0.00	0.00%	2,244,502	$4.55	$4.56	$0.01	0.22%	554,226,702	$2,516,189,227
5/26/2020	$4.64	$0.00	2.18%	5,213,600	$4.63	$4.64	$0.01	0.22%	554,226,702	$2,571,611,897
5/27/2020	$4.66	$0.00	0.43%	4,856,973	$4.66	$4.67	$0.01	0.21%	554,226,702	$2,582,696,431
5/28/2020	$4.58	$0.00	-1.73%	3,476,945	$4.58	$4.59	$0.01	0.22%	554,226,702	$2,538,358,295
5/29/2020	$4.64	$0.00	1.30%	4,071,661	$4.64	$4.65	$0.01	0.22%	554,226,702	$2,571,611,897
6/1/2020	$4.92	$0.00	5.86%	17,257,045	$4.91	$4.92	$0.01	0.20%	554,226,702	$2,726,795,374
6/2/2020	$5.36	$0.00	8.57%	19,723,163	$5.35	$5.36	$0.01	0.19%	554,226,702	$2,970,655,123
6/3/2020	$5.21	$0.00	-2.84%	5,690,854	$5.21	$5.22	$0.01	0.19%	554,226,702	$2,887,521,117
6/4/2020	$5.23	$0.00	0.38%	4,554,043	$5.23	$5.24	$0.01	0.19%	554,226,702	$2,898,605,651
6/5/2020	$5.47	$0.00	4.49%	5,841,965	$5.47	$5.48	$0.01	0.18%	554,226,702	$3,031,620,060
6/8/2020	$5.79	$0.00	5.69%	6,199,272	$5.78	$5.79	$0.01	0.17%	554,226,702	$3,208,972,605
6/9/2020	$5.61	$0.00	-3.16%	3,714,656	$5.61	$5.62	$0.01	0.18%	554,226,702	$3,109,211,798
6/10/2020	$5.57	$0.00	-0.72%	2,857,473	$5.57	$5.58	$0.01	0.18%	554,226,702	$3,087,042,730
6/11/2020	$5.03	$0.00	-10.20%	5,896,497	$5.03	$5.04	$0.01	0.20%	554,226,702	$2,787,760,311
6/12/2020	$5.25	$0.00	4.28%	4,118,203	$5.25	$5.26	$0.01	0.19%	554,226,702	$2,909,690,186
6/15/2020	$4.99	$0.00	-5.08%	6,506,659	$4.98	$4.99	$0.01	0.20%	554,226,702	$2,765,591,243
6/16/2020	$5.22	$0.00	4.51%	5,589,399	$5.21	$5.22	$0.01	0.19%	554,226,702	$2,893,063,384
6/17/2020	$5.10	$0.00	-2.33%	3,608,088	$5.10	$5.11	$0.01	0.20%	554,226,702	$2,826,556,180
6/18/2020	$5.08	$0.00	-0.39%	3,764,923	$5.07	$5.08	$0.01	0.20%	554,226,702	$2,815,471,646
6/19/2020	$5.06	$0.00	-0.39%	8,341,747	$5.05	$5.06	$0.01	0.20%	554,226,702	$2,804,387,112
6/22/2020	$5.12	$0.00	1.18%	5,146,822	$5.12	$5.13	$0.01	0.20%	555,754,901	$2,845,465,093
6/23/2020	$5.10	$0.00	-0.39%	4,459,683	$5.09	$5.10	$0.01	0.20%	555,754,901	$2,834,349,995
6/24/2020	$4.92	$0.00	-3.59%	7,844,386	$4.91	$4.92	$0.01	0.20%	555,754,901	$2,734,314,113
6/25/2020	$4.85	$0.00	-1.43%	7,956,484	$4.84	$4.85	$0.01	0.21%	555,754,901	$2,695,411,270
6/26/2020	$4.72	$0.00	-2.72%	4,769,237	$4.72	$4.73	$0.01	0.21%	555,754,901	$2,623,163,133
6/29/2020	$4.80	$0.00	1.68%	4,448,689	$4.80	$4.81	$0.01	0.21%	555,754,901	$2,667,623,525
6/30/2020	$4.89	$0.00	1.86%	4,433,244	$4.88	$4.89	$0.01	0.20%	555,754,901	$2,717,641,466
7/1/2020	$4.78	$0.00	-2.28%	3,522,810	$4.77	$4.78	$0.01	0.21%	555,754,901	$2,656,508,427
7/2/2020	$4.85	$0.00	1.45%	6,370,645	$4.85	$4.86	$0.01	0.21%	555,754,901	$2,695,411,270
7/6/2020	$5.02	$0.00	3.45%	4,578,880	$5.01	$5.02	$0.01	0.20%	555,754,901	$2,789,889,603
7/7/2020	$4.80	$0.00	-4.48%	2,831,925	$4.79	$4.80	$0.01	0.21%	555,754,901	$2,667,623,525
7/8/2020	$4.84	$0.00	0.83%	2,486,568	$4.83	$4.84	$0.01	0.21%	555,754,901	$2,689,853,721
7/9/2020	$4.81	$0.00	-0.62%	2,714,799	$4.81	$4.82	$0.01	0.21%	555,754,901	$2,673,181,074
7/10/2020	$4.73	$0.00	-1.68%	2,852,055	$4.73	$4.74	$0.01	0.21%	555,754,901	$2,628,720,682
7/13/2020	$4.58	$0.00	-3.22%	3,526,853	$4.57	$4.58	$0.01	0.22%	555,754,901	$2,545,357,447
7/14/2020	$4.58	$0.00	0.00%	3,662,843	$4.57	$4.58	$0.01	0.22%	555,754,901	$2,545,357,447
7/15/2020	$4.71	$0.00	2.80%	3,575,771	$4.70	$4.71	$0.01	0.21%	555,754,901	$2,617,605,584

Exhibit-3b

BB Market Efficiency Statistics

January 28, 2020 through January 27, 2021

Date	Closing Price [a]	Dividend [b]	Log Return [b]	Volume [c]	Closing Bid [d]	Closing Ask [e]	Closing Bid/Ask Spread	Average Bid/Ask Spread %	Outstanding Shares [f]	Market Capitalization [g]
7/16/2020	$4.65	$0.00	-1.28%	2,076,326	$4.65	$4.66	$0.01	0.21%	555,754,901	$2,584,260,290
7/17/2020	$4.80	$0.00	3.17%	2,793,988	$4.80	$4.81	$0.01	0.21%	555,754,901	$2,667,623,525
7/20/2020	$4.99	$0.00	3.88%	3,248,585	$4.98	$4.99	$0.01	0.20%	555,754,901	$2,773,216,956
7/21/2020	$4.85	$0.00	-2.85%	3,337,432	$4.85	$4.86	$0.01	0.21%	555,754,901	$2,695,411,270
7/22/2020	$4.79	$0.00	-1.24%	2,395,528	$4.78	$4.79	$0.01	0.21%	555,754,901	$2,662,065,976
7/23/2020	$4.74	$0.00	-1.05%	3,280,518	$4.74	$4.75	$0.01	0.21%	555,754,901	$2,634,278,231
7/24/2020	$4.65	$0.00	-1.92%	3,103,727	$4.64	$4.65	$0.01	0.22%	555,754,901	$2,584,260,290
7/27/2020	$4.69	$0.00	0.86%	2,975,576	$4.68	$4.69	$0.01	0.21%	555,754,901	$2,606,490,486
7/28/2020	$4.66	$0.00	-0.64%	2,635,228	$4.66	$4.67	$0.01	0.21%	555,754,901	$2,589,817,839
7/29/2020	$4.87	$0.00	4.41%	3,937,168	$4.86	$4.87	$0.01	0.21%	555,754,901	$2,706,526,368
7/30/2020	$4.74	$0.00	-2.71%	3,197,502	$4.74	$4.75	$0.01	0.21%	555,754,901	$2,634,278,231
7/31/2020	$4.74	$0.00	0.00%	2,165,912	$4.73	$4.74	$0.01	0.21%	555,754,901	$2,634,278,231
8/3/2020	$4.74	$0.00	0.00%	1,906,333	$4.74	$4.75	$0.01	0.21%	555,754,901	$2,634,278,231
8/4/2020	$4.75	$0.00	0.21%	3,146,674	$4.75	$4.76	$0.01	0.21%	555,754,901	$2,639,835,780
8/5/2020	$4.84	$0.00	1.88%	2,314,572	$4.84	$4.85	$0.01	0.21%	555,754,901	$2,689,853,721
8/6/2020	$4.96	$0.00	2.45%	5,436,453	$4.95	$4.96	$0.01	0.20%	555,754,901	$2,756,544,309
8/7/2020	$4.84	$0.00	-2.45%	5,364,623	$4.84	$4.85	$0.01	0.21%	555,754,901	$2,689,853,721
8/10/2020	$4.84	$0.00	0.00%	2,386,810	$4.83	$4.84	$0.01	0.21%	555,754,901	$2,689,853,721
8/11/2020	$4.79	$0.00	-1.04%	3,280,094	$4.79	$4.80	$0.01	0.21%	555,754,901	$2,662,065,976
8/12/2020	$4.82	$0.00	0.62%	1,893,976	$4.81	$4.82	$0.01	0.21%	555,754,901	$2,678,738,623
8/13/2020	$4.89	$0.00	1.44%	2,495,559	$4.88	$4.89	$0.01	0.20%	555,754,901	$2,717,641,466
8/14/2020	$4.80	$0.00	-1.86%	2,574,812	$4.79	$4.80	$0.01	0.21%	555,754,901	$2,667,623,525
8/17/2020	$4.81	$0.00	0.21%	1,842,279	$4.81	$4.82	$0.01	0.21%	555,754,901	$2,673,181,074
8/18/2020	$4.79	$0.00	-0.42%	2,432,902	$4.79	$4.80	$0.01	0.21%	555,754,901	$2,662,065,976
8/19/2020	$4.78	$0.00	-0.21%	2,641,862	$4.78	$4.79	$0.01	0.21%	555,754,901	$2,656,508,427
8/20/2020	$4.83	$0.00	1.04%	2,103,313	$4.83	$4.84	$0.01	0.21%	555,754,901	$2,684,296,172
8/21/2020	$4.75	$0.00	-1.67%	2,038,166	$4.74	$4.75	$0.01	0.21%	555,754,901	$2,639,835,780
8/24/2020	$4.79	$0.00	0.84%	2,528,378	$4.79	$4.80	$0.01	0.21%	555,754,901	$2,662,065,976
8/25/2020	$4.78	$0.00	-0.21%	2,470,462	$4.78	$4.79	$0.01	0.21%	555,754,901	$2,656,508,427
8/26/2020	$5.08	$0.00	6.09%	7,740,960	$5.08	$5.09	$0.01	0.20%	555,754,901	$2,823,234,897
8/27/2020	$5.03	$0.00	-0.99%	3,544,302	$5.02	$5.03	$0.01	0.20%	555,754,901	$2,795,447,152
8/28/2020	$5.23	$0.00	3.90%	3,993,943	$5.22	$5.23	$0.01	0.19%	555,754,901	$2,906,598,132
8/31/2020	$5.22	$0.00	-0.19%	4,302,973	$5.21	$5.22	$0.01	0.19%	555,754,901	$2,901,040,583
9/1/2020	$5.58	$0.00	6.67%	6,662,922	$5.58	$5.59	$0.01	0.18%	555,754,901	$3,101,112,348
9/2/2020	$5.52	$0.00	-1.08%	5,100,117	$5.52	$5.53	$0.01	0.18%	555,754,901	$3,067,767,054
9/3/2020	$5.18	$0.00	-6.36%	5,338,775	$5.17	$5.18	$0.01	0.19%	555,754,901	$2,878,810,387
9/4/2020	$5.11	$0.00	-1.36%	5,839,583	$5.11	$5.12	$0.01	0.20%	555,754,901	$2,839,907,544
9/8/2020	$4.93	$0.00	-3.59%	3,747,374	$4.93	$4.94	$0.01	0.20%	555,754,901	$2,739,871,662
9/9/2020	$4.92	$0.00	-0.20%	3,597,561	$4.91	$4.92	$0.01	0.20%	555,754,901	$2,734,314,113
9/10/2020	$4.80	$0.00	-2.47%	3,546,285	$4.80	$4.81	$0.01	0.21%	555,754,901	$2,667,623,525
9/11/2020	$4.75	$0.00	-1.05%	3,690,640	$4.74	$4.75	$0.01	0.21%	555,754,901	$2,639,835,780
9/14/2020	$4.82	$0.00	1.46%	3,552,366	$4.82	$4.83	$0.01	0.21%	555,754,901	$2,678,738,623
9/15/2020	$4.81	$0.00	-0.21%	2,491,023	$4.81	$4.82	$0.01	0.21%	555,754,901	$2,673,181,074
9/16/2020	$4.73	$0.00	-1.68%	3,159,896	$4.73	$4.74	$0.01	0.21%	555,754,901	$2,628,720,682
9/17/2020	$4.73	$0.00	0.00%	3,696,443	$4.72	$4.73	$0.01	0.21%	555,754,901	$2,628,720,682
9/18/2020	$4.86	$0.00	2.71%	4,055,778	$4.86	$4.87	$0.01	0.21%	555,754,901	$2,700,968,819
9/21/2020	$4.76	$0.00	-2.08%	3,244,905	$4.76	$4.77	$0.01	0.21%	556,513,359	$2,649,003,589
9/22/2020	$4.94	$0.00	3.71%	3,316,679	$4.94	$4.95	$0.01	0.20%	556,513,359	$2,749,175,993
9/23/2020	$4.80	$0.00	-2.87%	4,556,051	$4.79	$4.80	$0.01	0.21%	556,513,359	$2,671,264,123
9/24/2020	$4.75	$0.00	-1.05%	17,292,849	$4.75	$4.76	$0.01	0.21%	556,513,359	$2,643,438,455
9/25/2020	$4.77	$0.00	0.42%	5,590,815	$4.76	$4.77	$0.01	0.21%	556,513,359	$2,654,568,722
9/28/2020	$4.61	$0.00	-3.41%	7,265,685	$4.61	$4.62	$0.01	0.22%	556,513,359	$2,565,526,585
9/29/2020	$4.63	$0.00	0.43%	5,846,179	$4.63	$4.64	$0.01	0.22%	556,513,359	$2,576,656,852
9/30/2020	$4.59	$0.00	-0.87%	3,808,542	$4.58	$4.59	$0.01	0.22%	556,513,359	$2,554,396,318
10/1/2020	$4.58	$0.00	-0.22%	4,971,185	$4.58	$4.59	$0.01	0.22%	556,513,359	$2,548,831,184
10/2/2020	$4.44	$0.00	-3.10%	6,539,262	$4.43	$4.44	$0.01	0.23%	556,513,359	$2,470,919,314
10/5/2020	$4.50	$0.00	1.34%	3,106,256	$4.49	$4.50	$0.01	0.22%	556,513,359	$2,504,310,116
10/6/2020	$4.55	$0.00	1.10%	3,966,064	$4.54	$4.55	$0.01	0.22%	556,513,359	$2,532,135,783
10/7/2020	$4.57	$0.00	0.44%	2,166,932	$4.57	$4.58	$0.01	0.22%	556,513,359	$2,543,266,051

Exhibit-3b

BB Market Efficiency Statistics

January 28, 2020 through January 27, 2021

Date	Closing Price	Dividend	Log Return	Volume	Closing Bid	Closing Ask	Closing Bid/Ask Spread	Average Bid/Ask Spread %	Outstanding Shares	Market Capitalization
	[a]	[b]	[b]	[c]	[d]	[e]			[f]	[g]
10/8/2020	$4.60	$0.00	0.65%	2,154,113	$4.60	$4.61	$0.01	0.22%	556,513,359	$2,559,961,451
10/9/2020	$4.73	$0.00	2.79%	2,618,171	$4.73	$4.74	$0.01	0.21%	556,513,359	$2,632,308,188
10/12/2020	$4.75	$0.00	0.42%	2,268,273	$4.74	$4.75	$0.01	0.21%	556,513,359	$2,643,438,455
10/13/2020	$5.14	$0.00	7.89%	10,691,064	$5.14	$5.15	$0.01	0.19%	556,513,359	$2,860,478,665
10/14/2020	$5.08	$0.00	-1.17%	5,209,616	$5.08	$5.09	$0.01	0.20%	556,513,359	$2,827,087,864
10/15/2020	$5.16	$0.00	1.56%	4,453,800	$5.15	$5.16	$0.01	0.19%	556,513,359	$2,871,608,932
10/16/2020	$4.98	$0.00	-3.55%	5,989,984	$4.98	$4.99	$0.01	0.20%	556,513,359	$2,771,436,528
10/19/2020	$5.19	$0.00	4.13%	4,816,427	$5.18	$5.19	$0.01	0.19%	556,513,359	$2,888,304,333
10/20/2020	$5.08	$0.00	-2.14%	4,616,522	$5.08	$5.09	$0.01	0.20%	556,513,359	$2,827,087,864
10/21/2020	$5.10	$0.00	0.39%	3,555,836	$5.10	$5.11	$0.01	0.20%	556,513,359	$2,838,218,131
10/22/2020	$5.13	$0.00	0.59%	2,651,978	$5.12	$5.13	$0.01	0.20%	556,513,359	$2,854,913,532
10/23/2020	$5.12	$0.00	-0.20%	2,568,033	$5.11	$5.12	$0.01	0.20%	556,513,359	$2,849,348,398
10/26/2020	$4.88	$0.00	-4.80%	3,772,836	$4.87	$4.88	$0.01	0.21%	556,513,359	$2,715,785,192
10/27/2020	$4.85	$0.00	-0.62%	2,077,902	$4.85	$4.86	$0.01	0.21%	556,513,359	$2,699,089,791
10/28/2020	$4.57	$0.00	-5.95%	4,031,206	$4.56	$4.57	$0.01	0.22%	556,513,359	$2,543,266,051
10/29/2020	$4.61	$0.00	0.87%	2,557,312	$4.60	$4.61	$0.01	0.22%	556,513,359	$2,565,526,585
10/30/2020	$4.49	$0.00	-2.64%	3,573,867	$4.49	$4.50	$0.01	0.22%	556,513,359	$2,498,744,982
11/2/2020	$4.48	$0.00	-0.22%	2,864,480	$4.48	$4.49	$0.01	0.22%	556,513,359	$2,493,179,848
11/3/2020	$4.67	$0.00	4.15%	2,781,730	$4.66	$4.67	$0.01	0.21%	556,513,359	$2,598,917,387
11/4/2020	$4.68	$0.00	0.21%	3,113,912	$4.67	$4.68	$0.01	0.21%	556,513,359	$2,604,482,520
11/5/2020	$4.86	$0.00	3.77%	2,597,311	$4.86	$4.87	$0.01	0.21%	556,513,359	$2,704,654,925
11/6/2020	$4.83	$0.00	-0.62%	2,853,811	$4.83	$4.84	$0.01	0.21%	556,513,359	$2,687,959,524
11/9/2020	$4.93	$0.00	2.05%	3,986,592	$4.93	$4.94	$0.01	0.20%	556,513,359	$2,743,610,860
11/10/2020	$5.02	$0.00	1.81%	4,143,562	$5.01	$5.02	$0.01	0.20%	556,513,359	$2,793,697,062
11/11/2020	$5.19	$0.00	3.33%	5,724,602	$5.19	$5.20	$0.01	0.19%	556,513,359	$2,888,304,333
11/12/2020	$4.99	$0.00	-3.93%	2,988,412	$4.99	$5.00	$0.01	0.20%	556,513,359	$2,777,001,661
11/13/2020	$5.11	$0.00	2.38%	5,360,961	$5.10	$5.11	$0.01	0.20%	556,513,359	$2,843,783,264
11/16/2020	$5.19	$0.00	1.55%	3,276,284	$5.19	$5.20	$0.01	0.19%	556,513,359	$2,888,304,333
11/17/2020	$5.29	$0.00	1.91%	3,229,332	$5.29	$5.30	$0.01	0.19%	556,513,359	$2,943,955,669
11/18/2020	$5.44	$0.00	2.80%	6,118,709	$5.43	$5.44	$0.01	0.18%	556,513,359	$3,027,432,673
11/19/2020	$5.36	$0.00	-1.48%	4,367,186	$5.35	$5.36	$0.01	0.19%	556,513,359	$2,982,911,604
11/20/2020	$5.76	$0.00	7.20%	6,587,242	$5.76	$5.77	$0.01	0.17%	556,513,359	$3,205,516,948
11/23/2020	$5.66	$0.00	-1.75%	4,999,182	$5.65	$5.66	$0.01	0.18%	556,513,359	$3,149,865,612
11/24/2020	$5.70	$0.00	0.70%	5,144,868	$5.69	$5.70	$0.01	0.18%	556,513,359	$3,172,126,146
11/25/2020	$5.91	$0.00	3.62%	4,992,235	$5.90	$5.91	$0.01	0.17%	556,513,359	$3,288,993,952
11/27/2020	$6.15	$0.00	3.98%	3,742,511	$6.14	$6.15	$0.01	0.16%	556,513,359	$3,422,557,158
11/30/2020	$5.87	$0.00	-4.66%	6,862,861	$5.87	$5.88	$0.01	0.17%	556,513,359	$3,266,733,417
12/1/2020	$7.00	$0.00	17.61%	330,186,642	$6.99	$7.00	$0.01	0.14%	556,513,359	$3,895,593,513
12/2/2020	$7.45	$0.00	6.23%	150,129,782	$7.44	$7.45	$0.01	0.13%	556,513,359	$4,146,024,525
12/3/2020	$7.46	$0.00	0.13%	40,307,221	$7.45	$7.46	$0.01	0.13%	556,513,359	$4,151,589,658
12/4/2020	$8.52	$0.00	13.29%	69,814,488	$8.50	$8.51	$0.01	0.12%	556,513,359	$4,741,493,819
12/7/2020	$8.25	$0.00	-3.22%	44,629,082	$8.24	$8.25	$0.01	0.12%	556,513,359	$4,591,235,212
12/8/2020	$8.52	$0.00	3.22%	26,885,135	$8.51	$8.52	$0.01	0.12%	556,513,359	$4,741,493,819
12/9/2020	$8.31	$0.00	-2.50%	19,628,026	$8.30	$8.31	$0.01	0.12%	556,513,359	$4,624,626,013
12/10/2020	$8.37	$0.00	0.72%	10,923,177	$8.36	$8.37	$0.01	0.12%	556,513,359	$4,658,016,815
12/11/2020	$8.16	$0.00	-2.54%	11,643,153	$8.15	$8.16	$0.01	0.12%	556,513,359	$4,541,149,009
12/14/2020	$8.25	$0.00	1.10%	14,675,514	$8.25	$8.26	$0.01	0.12%	556,513,359	$4,591,235,212
12/15/2020	$8.30	$0.00	0.60%	9,819,740	$8.30	$8.31	$0.01	0.12%	562,634,092	$4,669,862,964
12/16/2020	$8.24	$0.00	-0.73%	8,043,156	$8.24	$8.25	$0.01	0.12%	562,634,092	$4,636,104,918
12/17/2020	$8.26	$0.00	0.24%	17,717,855	$8.25	$8.26	$0.01	0.12%	562,634,092	$4,647,357,600
12/18/2020	$6.95	$0.00	-17.27%	49,470,140	$6.94	$6.95	$0.01	0.14%	562,634,092	$3,910,306,939
12/21/2020	$7.11	$0.00	2.28%	17,988,339	$7.10	$7.11	$0.01	0.14%	562,634,092	$4,000,328,394
12/22/2020	$7.19	$0.00	1.12%	16,822,909	$7.19	$7.20	$0.01	0.14%	562,634,092	$4,045,339,121
12/23/2020	$7.09	$0.00	-1.40%	9,115,529	$7.08	$7.09	$0.01	0.14%	562,634,092	$3,989,075,712
12/24/2020	$7.06	$0.00	-0.42%	6,088,342	$7.06	$7.07	$0.01	0.14%	562,634,092	$3,972,196,690
12/28/2020	$6.88	$0.00	-2.58%	9,820,108	$6.88	$6.89	$0.01	0.15%	562,634,092	$3,870,922,553
12/29/2020	$6.77	$0.00	-1.61%	11,284,185	$6.76	$6.77	$0.01	0.15%	562,634,092	$3,809,032,803
12/30/2020	$6.67	$0.00	-1.49%	9,434,913	$6.66	$6.67	$0.01	0.15%	562,634,092	$3,752,769,394
12/31/2020	$6.63	$0.00	-0.60%	7,530,565	$6.63	$6.64	$0.01	0.15%	562,634,092	$3,730,264,030

Exhibit-3b

BB Market Efficiency Statistics

January 28, 2020 through January 27, 2021

Date	Closing Price [a]	Dividend [b]	Log Return [b]	Volume [c]	Closing Bid [d]	Closing Ask [e]	Closing Bid/Ask Spread	Average Bid/Ask Spread %	Outstanding Shares [f]	Market Capitalization [g]
1/4/2021	$6.58	$0.00	-0.76%	11,139,231	$6.58	$6.59	$0.01	0.15%	562,634,092	$3,702,132,325
1/5/2021	$6.77	$0.00	2.85%	9,108,900	$6.77	$6.78	$0.01	0.15%	562,634,092	$3,809,032,803
1/6/2021	$6.71	$0.00	-0.89%	11,022,286	$6.71	$6.72	$0.01	0.15%	562,634,092	$3,775,274,757
1/7/2021	$7.06	$0.00	5.08%	13,062,758	$7.06	$7.07	$0.01	0.14%	562,634,092	$3,972,196,690
1/8/2021	$7.56	$0.00	6.84%	23,039,275	$7.55	$7.56	$0.01	0.13%	562,634,092	$4,253,513,736
1/11/2021	$7.65	$0.00	1.18%	15,749,559	$7.64	$7.65	$0.01	0.13%	562,634,092	$4,304,150,804
1/12/2021	$7.63	$0.00	-0.26%	9,416,014	$7.62	$7.63	$0.01	0.13%	562,634,092	$4,292,898,122
1/13/2021	$7.44	$0.00	-2.52%	8,345,519	$7.43	$7.44	$0.01	0.13%	562,634,092	$4,185,997,644
1/14/2021	$9.11	$0.00	20.25%	65,231,338	$9.09	$9.10	$0.01	0.11%	562,634,092	$5,125,596,578
1/15/2021	$9.84	$0.00	7.71%	153,854,663	$9.83	$9.84	$0.01	0.10%	562,634,092	$5,536,319,465
1/19/2021	$12.35	$0.00	22.72%	112,483,169	$12.34	$12.35	$0.01	0.08%	562,634,092	$6,948,531,036
1/20/2021	$12.79	$0.00	3.50%	130,140,695	$12.77	$12.79	$0.02	0.16%	562,634,092	$7,196,090,037
1/21/2021	$12.85	$0.00	0.47%	63,464,952	$12.83	$12.84	$0.01	0.08%	562,634,092	$7,229,848,082
1/22/2021	$14.04	$0.00	8.86%	120,473,629	$14.03	$14.04	$0.01	0.07%	562,634,092	$7,899,382,652
1/25/2021	$18.03	$0.00	25.01%	363,829,082	$18.03	$18.04	$0.01	0.06%	562,634,092	$10,144,292,679
1/26/2021	$18.92	$0.00	4.82%	242,740,763	$18.80	$18.81	$0.01	0.05%	562,634,092	$10,645,037,021
1/27/2021	$25.10	$0.00	28.26%	372,222,608	$25.03	$25.04	$0.01	0.04%	562,634,092	$14,122,115,709
Average	$5.49	$0.00	0.55%	14,672,603	$5.48	$5.49	$0.01	0.20%	555,773,767	$3,053.1 million
Median	$4.86	$0.00	0.00%	4,816,427	$4.86	$4.87	$0.01	0.21%	555,754,901	$2,701.0 million
High	$25.10	$0.00	28.26%	372,222,608	$25.03	$25.04	$0.02	0.49%	562,634,092	$14,122.1 million
Low	$2.90	$0.00	-25.62%	1,842,279	$2.89	$2.90	$0.01	0.04%	552,132,000	$1,601.2 million

Source: CRSP & SEC Filings.

Exhibit-3c

BBBY Market Efficiency Statistics

January 28, 2020 through January 27, 2021

Date	Closing Price [a]	Dividend [b]	Log Return [b]	Volume [c]	Closing Bid [d]	Closing Ask [e]	Closing Bid/Ask Spread	Average Bid/Ask Spread %	Outstanding Shares [f]	Market Capitalization [g]
1/28/2020	$16.12	$0.00	1.25%	3,297,086	$16.11	$16.12	$0.01	0.06%	126,960,648	$2,046,605,646
1/29/2020	$16.21	$0.00	0.56%	2,456,758	$16.21	$16.22	$0.01	0.06%	126,960,648	$2,058,032,104
1/30/2020	$14.95	$0.00	-8.09%	7,825,058	$14.94	$14.95	$0.01	0.07%	126,960,648	$1,898,061,688
1/31/2020	$14.25	$0.00	-4.80%	8,895,241	$14.24	$14.25	$0.01	0.07%	126,960,648	$1,809,189,234
2/3/2020	$14.89	$0.00	4.36%	4,767,284	$14.88	$14.89	$0.01	0.07%	126,960,648	$1,889,809,245
2/4/2020	$15.34	$0.00	3.01%	3,606,784	$15.33	$15.34	$0.01	0.07%	126,960,648	$1,947,576,340
2/5/2020	$15.75	$0.00	2.64%	3,158,694	$15.74	$15.75	$0.01	0.06%	126,960,648	$1,999,630,206
2/6/2020	$15.62	$0.00	-0.83%	3,367,470	$15.61	$15.62	$0.01	0.06%	126,960,648	$1,983,125,322
2/7/2020	$15.31	$0.00	-2.00%	2,851,683	$15.30	$15.31	$0.01	0.07%	126,960,648	$1,943,767,521
2/10/2020	$14.29	$0.00	-6.89%	10,657,670	$14.30	$14.31	$0.01	0.07%	126,960,648	$1,814,267,660
2/11/2020	$14.85	$0.00	3.84%	12,358,815	$14.83	$14.85	$0.02	0.13%	126,960,648	$1,885,365,623
2/12/2020	$11.79	$0.00	-23.07%	77,928,150	$11.78	$11.79	$0.01	0.08%	126,960,648	$1,496,866,040
2/13/2020	$11.81	$0.00	0.17%	12,641,063	$11.80	$11.81	$0.01	0.08%	126,960,648	$1,499,405,253
2/14/2020	$11.18	$0.00	-5.48%	13,740,094	$11.17	$11.18	$0.01	0.09%	126,960,648	$1,419,420,045
2/18/2020	$11.78	$0.00	5.23%	15,783,886	$11.77	$11.78	$0.01	0.08%	126,960,648	$1,495,596,433
2/19/2020	$12.61	$0.00	6.81%	19,106,179	$12.60	$12.61	$0.01	0.08%	126,960,648	$1,600,973,771
2/20/2020	$12.67	$0.00	0.47%	10,594,744	$12.67	$12.68	$0.01	0.08%	126,960,648	$1,608,591,410
2/21/2020	$12.45	$0.00	-1.75%	8,802,431	$12.45	$12.46	$0.01	0.08%	126,960,648	$1,580,660,068
2/24/2020	$11.62	$0.00	-6.90%	11,428,785	$11.60	$11.62	$0.02	0.17%	126,960,648	$1,475,282,730
2/25/2020	$10.99	$0.00	-5.57%	12,182,287	$10.98	$10.99	$0.01	0.09%	126,960,648	$1,395,297,522
2/26/2020	$10.60	$0.00	-3.61%	8,885,381	$10.60	$10.61	$0.01	0.09%	126,960,648	$1,345,782,869
2/27/2020	$10.28	$0.00	-3.07%	9,984,290	$10.27	$10.28	$0.01	0.10%	126,960,648	$1,305,155,461
2/28/2020	$10.81	$0.00	5.03%	12,465,416	$10.82	$10.83	$0.01	0.09%	126,960,648	$1,372,444,605
3/2/2020	$10.33	$0.00	-4.54%	9,487,812	$10.33	$10.34	$0.01	0.10%	126,960,648	$1,311,503,494
3/3/2020	$9.91	$0.00	-4.15%	10,628,176	$9.90	$9.91	$0.01	0.10%	126,960,648	$1,258,180,022
3/4/2020	$9.97	$0.00	0.60%	8,099,293	$9.96	$9.97	$0.01	0.10%	126,960,648	$1,265,797,661
3/5/2020	$9.49	$0.00	-4.93%	9,355,858	$9.49	$9.50	$0.01	0.11%	126,960,648	$1,204,856,550
3/6/2020	$9.79	$0.00	3.11%	8,965,373	$9.79	$9.80	$0.01	0.10%	126,960,648	$1,242,944,744
3/9/2020	$9.01	$0.00	-8.30%	8,331,533	$9.01	$9.02	$0.01	0.11%	126,960,648	$1,143,915,438
3/10/2020	$8.74	$0.00	-3.04%	12,245,368	$8.74	$8.75	$0.01	0.11%	126,960,648	$1,109,636,064
3/11/2020	$7.65	$0.00	-13.32%	12,231,544	$7.63	$7.64	$0.01	0.13%	126,960,648	$971,248,957
3/12/2020	$6.29	$0.17	-16.91%	12,312,549	$6.26	$6.27	$0.01	0.16%	126,960,648	$798,582,476
3/13/2020	$7.29	$0.00	14.75%	16,596,403	$7.28	$7.29	$0.01	0.14%	126,960,648	$925,543,124
3/16/2020	$6.09	$0.00	-17.99%	15,564,201	$6.08	$6.09	$0.01	0.16%	126,960,648	$773,190,346
3/17/2020	$5.44	$0.00	-11.29%	12,666,003	$5.42	$5.43	$0.01	0.18%	126,960,648	$690,665,925
3/18/2020	$4.62	$0.00	-16.34%	11,669,884	$4.58	$4.59	$0.01	0.22%	126,960,648	$586,558,194
3/19/2020	$5.42	$0.00	15.97%	12,360,938	$5.41	$5.42	$0.01	0.18%	126,960,648	$688,126,712
3/20/2020	$5.00	$0.00	-8.07%	10,833,819	$4.98	$4.99	$0.01	0.20%	126,960,648	$634,803,240
3/23/2020	$4.46	$0.00	-11.43%	11,960,177	$4.45	$4.46	$0.01	0.22%	126,960,648	$566,244,490
3/24/2020	$5.72	$0.00	24.88%	10,215,361	$5.71	$5.72	$0.01	0.17%	126,960,648	$726,214,907
3/25/2020	$5.39	$0.00	-5.94%	7,151,427	$5.38	$5.39	$0.01	0.19%	126,960,648	$684,317,893
3/26/2020	$4.89	$0.00	-9.74%	12,084,824	$4.87	$4.88	$0.01	0.21%	126,960,648	$620,837,569
3/27/2020	$4.65	$0.00	-5.03%	10,189,653	$4.65	$4.66	$0.01	0.21%	126,960,648	$590,367,013
3/30/2020	$4.20	$0.00	-10.18%	8,706,282	$4.18	$4.19	$0.01	0.24%	126,553,062	$531,522,860
3/31/2020	$4.21	$0.00	0.24%	7,996,434	$4.18	$4.19	$0.01	0.24%	126,553,062	$532,788,391
4/1/2020	$3.79	$0.00	-10.51%	10,635,013	$3.78	$3.79	$0.01	0.26%	126,553,062	$479,636,105
4/2/2020	$3.56	$0.00	-6.26%	13,213,509	$3.55	$3.56	$0.01	0.28%	126,553,062	$450,528,901
4/3/2020	$3.94	$0.00	10.14%	15,706,198	$3.93	$3.94	$0.01	0.25%	126,553,062	$498,619,064
4/6/2020	$4.41	$0.00	11.27%	13,306,731	$4.40	$4.41	$0.01	0.23%	126,553,062	$558,099,003
4/7/2020	$4.71	$0.00	6.58%	19,721,694	$4.69	$4.70	$0.01	0.21%	126,553,062	$596,064,922
4/8/2020	$5.70	$0.00	19.08%	23,167,608	$5.70	$5.71	$0.01	0.18%	126,553,062	$721,352,453
4/9/2020	$5.58	$0.00	-2.13%	17,374,705	$5.58	$5.59	$0.01	0.18%	126,553,062	$706,166,086
4/13/2020	$5.27	$0.00	-5.72%	10,350,150	$5.26	$5.27	$0.01	0.19%	126,553,062	$666,934,637
4/14/2020	$5.37	$0.00	1.88%	6,576,903	$5.36	$5.37	$0.01	0.19%	126,553,062	$679,589,943
4/15/2020	$4.44	$0.00	-19.02%	25,509,150	$4.43	$4.44	$0.01	0.23%	126,553,062	$561,895,595
4/16/2020	$5.24	$0.00	16.57%	34,137,178	$5.23	$5.24	$0.01	0.19%	126,553,062	$663,138,045
4/17/2020	$4.79	$0.00	-8.98%	26,793,458	$4.78	$4.79	$0.01	0.21%	126,553,062	$606,189,167
4/20/2020	$4.55	$0.00	-5.14%	12,686,779	$4.54	$4.55	$0.01	0.22%	126,553,062	$575,816,432
4/21/2020	$4.53	$0.00	-0.44%	9,268,389	$4.52	$4.53	$0.01	0.22%	126,553,062	$573,285,371

Exhibit-3c

BBBY Market Efficiency Statistics

January 28, 2020 through January 27, 2021

Date	Closing Price [a]	Dividend [b]	Log Return [b]	Volume [c]	Closing Bid [d]	Closing Ask [e]	Closing Bid/Ask Spread	Average Bid/Ask Spread %	Outstanding Shares [f]	Market Capitalization [g]
4/22/2020	$4.60	$0.00	1.53%	10,532,615	$4.60	$4.61	$0.01	0.22%	126,553,062	$582,144,085
4/23/2020	$4.91	$0.00	6.52%	12,369,957	$4.89	$4.90	$0.01	0.20%	126,553,062	$621,375,534
4/24/2020	$5.23	$0.00	6.31%	11,370,471	$5.22	$5.23	$0.01	0.19%	126,553,062	$661,872,514
4/27/2020	$6.41	$0.00	20.34%	34,297,938	$6.40	$6.41	$0.01	0.16%	126,553,062	$811,205,127
4/28/2020	$6.65	$0.00	3.68%	43,853,170	$6.64	$6.65	$0.01	0.15%	126,553,062	$841,577,862
4/29/2020	$6.59	$0.00	-0.91%	13,945,270	$6.59	$6.60	$0.01	0.15%	126,553,062	$833,984,679
4/30/2020	$6.19	$0.00	-6.26%	11,016,169	$6.19	$6.20	$0.01	0.16%	126,553,062	$783,363,454
5/1/2020	$5.64	$0.00	-9.39%	11,275,026	$5.63	$5.64	$0.01	0.18%	126,553,062	$713,126,504
5/4/2020	$5.91	$0.00	4.76%	8,280,423	$5.91	$5.92	$0.01	0.17%	126,553,062	$747,928,596
5/5/2020	$5.58	$0.00	-5.75%	8,444,107	$5.57	$5.58	$0.01	0.18%	126,553,062	$706,166,086
5/6/2020	$5.64	$0.00	1.07%	5,131,608	$5.64	$5.65	$0.01	0.18%	126,553,062	$713,759,270
5/7/2020	$5.78	$0.00	2.45%	5,440,938	$5.77	$5.78	$0.01	0.17%	126,553,062	$731,476,698
5/8/2020	$6.46	$0.00	11.12%	9,909,832	$6.45	$6.46	$0.01	0.15%	126,553,062	$817,532,781
5/11/2020	$6.20	$0.00	-4.11%	8,451,016	$6.20	$6.21	$0.01	0.16%	126,553,062	$784,628,984
5/12/2020	$5.86	$0.00	-5.64%	6,220,411	$5.86	$5.87	$0.01	0.17%	126,553,062	$741,600,943
5/13/2020	$5.45	$0.00	-7.25%	8,540,416	$5.44	$5.45	$0.01	0.18%	126,553,062	$689,714,188
5/14/2020	$5.35	$0.00	-1.85%	9,401,672	$5.35	$5.36	$0.01	0.19%	126,553,062	$677,058,882
5/15/2020	$5.79	$0.00	7.90%	10,117,736	$5.79	$5.80	$0.01	0.17%	126,553,062	$732,742,229
5/18/2020	$6.28	$0.00	8.12%	11,647,288	$6.27	$6.28	$0.01	0.16%	126,553,062	$794,753,229
5/19/2020	$5.95	$0.00	-5.40%	8,110,659	$5.94	$5.95	$0.01	0.17%	126,553,062	$752,990,719
5/20/2020	$5.95	$0.00	0.00%	8,724,971	$5.94	$5.95	$0.01	0.17%	126,553,062	$752,990,719
5/21/2020	$6.80	$0.00	13.35%	20,507,598	$6.81	$6.82	$0.01	0.15%	126,553,062	$860,560,822
5/22/2020	$6.70	$0.00	-1.48%	12,435,996	$6.69	$6.70	$0.01	0.15%	126,553,062	$847,905,515
5/26/2020	$7.49	$0.00	11.15%	16,028,472	$7.49	$7.50	$0.01	0.13%	126,553,062	$947,882,434
5/27/2020	$7.69	$0.00	2.64%	12,356,752	$7.69	$7.70	$0.01	0.13%	126,553,062	$973,193,047
5/28/2020	$7.47	$0.00	-2.90%	7,965,651	$7.48	$7.49	$0.01	0.13%	126,553,062	$945,351,373
5/29/2020	$7.27	$0.00	-2.71%	7,567,405	$7.26	$7.27	$0.01	0.14%	126,553,062	$920,040,761
6/1/2020	$7.50	$0.00	3.11%	6,301,830	$7.51	$7.52	$0.01	0.13%	126,307,342	$947,305,065
6/2/2020	$7.55	$0.00	0.66%	6,979,551	$7.54	$7.55	$0.01	0.13%	126,307,342	$953,620,432
6/3/2020	$8.08	$0.00	6.78%	11,627,872	$8.08	$8.09	$0.01	0.12%	126,307,342	$1,020,563,323
6/4/2020	$8.73	$0.00	7.74%	16,524,562	$8.74	$8.75	$0.01	0.11%	126,307,342	$1,102,663,096
6/5/2020	$9.32	$0.00	6.54%	25,934,021	$9.32	$9.33	$0.01	0.11%	126,307,342	$1,177,184,427
6/8/2020	$9.86	$0.00	5.63%	14,947,107	$9.86	$9.87	$0.01	0.10%	126,307,342	$1,245,390,392
6/9/2020	$9.09	$0.00	-8.13%	7,918,790	$9.09	$9.10	$0.01	0.11%	126,307,342	$1,148,133,739
6/10/2020	$8.26	$0.00	-9.58%	13,717,164	$8.25	$8.26	$0.01	0.12%	126,307,342	$1,043,298,645
6/11/2020	$7.46	$0.00	-10.19%	11,953,836	$7.45	$7.46	$0.01	0.13%	126,307,342	$942,252,771
6/12/2020	$8.10	$0.00	8.23%	7,464,375	$8.09	$8.10	$0.01	0.12%	126,307,342	$1,023,089,470
6/15/2020	$8.37	$0.00	3.28%	14,686,966	$8.38	$8.39	$0.01	0.12%	126,307,342	$1,057,192,453
6/16/2020	$9.64	$0.00	14.13%	17,807,034	$9.63	$9.64	$0.01	0.10%	126,307,342	$1,217,602,777
6/17/2020	$9.72	$0.00	0.83%	12,992,399	$9.72	$9.73	$0.01	0.10%	126,307,342	$1,227,707,364
6/18/2020	$10.10	$0.00	3.83%	12,029,662	$10.10	$10.11	$0.01	0.10%	126,307,342	$1,275,704,154
6/19/2020	$9.84	$0.00	-2.61%	40,711,553	$9.83	$9.84	$0.01	0.10%	126,307,342	$1,242,864,245
6/22/2020	$9.97	$0.00	1.31%	10,300,127	$9.98	$9.99	$0.01	0.10%	126,307,342	$1,259,284,200
6/23/2020	$10.24	$0.00	2.67%	10,410,166	$10.24	$10.25	$0.01	0.10%	126,307,342	$1,293,387,182
6/24/2020	$9.35	$0.00	-9.09%	12,132,776	$9.34	$9.35	$0.01	0.11%	126,307,342	$1,180,973,648
6/25/2020	$9.48	$0.00	1.33%	7,292,735	$9.47	$9.48	$0.01	0.11%	126,307,342	$1,196,762,065
6/26/2020	$10.05	$0.00	5.89%	16,544,887	$10.04	$10.05	$0.01	0.10%	126,307,342	$1,269,388,787
6/29/2020	$10.82	$0.00	7.38%	12,952,906	$10.84	$10.85	$0.01	0.09%	126,307,342	$1,366,645,440
6/30/2020	$10.60	$0.00	-2.05%	8,966,644	$10.60	$10.61	$0.01	0.09%	126,307,342	$1,338,857,825
7/1/2020	$10.64	$0.00	0.38%	7,770,032	$10.64	$10.65	$0.01	0.09%	126,307,342	$1,343,910,119
7/2/2020	$10.81	$0.00	1.59%	8,644,859	$10.81	$10.82	$0.01	0.09%	126,307,342	$1,365,382,367
7/6/2020	$10.76	$0.00	-0.46%	9,243,991	$10.76	$10.77	$0.01	0.09%	126,307,342	$1,359,067,000
7/7/2020	$10.24	$0.00	-4.95%	12,595,093	$10.24	$10.25	$0.01	0.10%	126,307,342	$1,293,387,182
7/8/2020	$10.41	$0.00	1.65%	20,094,522	$10.40	$10.41	$0.01	0.10%	126,307,342	$1,314,859,430
7/9/2020	$7.86	$0.00	-28.10%	66,611,172	$7.85	$7.86	$0.01	0.13%	126,307,342	$992,775,708
7/10/2020	$8.20	$0.00	4.17%	22,311,804	$8.19	$8.20	$0.01	0.12%	126,307,342	$1,035,088,668
7/13/2020	$7.73	$0.00	-5.91%	22,965,177	$7.72	$7.73	$0.01	0.13%	126,307,342	$975,724,217
7/14/2020	$8.39	$0.00	8.26%	17,809,256	$8.39	$8.40	$0.01	0.12%	126,307,342	$1,059,718,599
7/15/2020	$8.88	$0.00	5.68%	16,066,669	$8.87	$8.88	$0.01	0.11%	126,307,342	$1,121,609,197

Exhibit-3c

BBBY Market Efficiency Statistics

January 28, 2020 through January 27, 2021

Date	Closing Price [a]	Dividend [b]	Log Return [b]	Volume [c]	Closing Bid [d]	Closing Ask [e]	Closing Bid/Ask Spread	Average Bid/Ask Spread %	Outstanding Shares [f]	Market Capitalization [g]
7/16/2020	$9.47	$0.00	6.38%	13,838,157	$9.46	$9.47	$0.01	0.11%	126,307,342	$1,195,498,992
7/17/2020	$9.22	$0.00	-2.62%	7,063,788	$9.22	$9.23	$0.01	0.11%	126,307,342	$1,164,553,693
7/20/2020	$8.89	$0.00	-3.64%	8,205,974	$8.88	$8.89	$0.01	0.11%	126,307,342	$1,122,872,270
7/21/2020	$9.43	$0.00	5.90%	9,664,810	$9.41	$9.42	$0.01	0.11%	126,307,342	$1,191,078,235
7/22/2020	$10.00	$0.00	5.87%	12,123,282	$9.99	$10.00	$0.01	0.10%	126,307,342	$1,263,073,420
7/23/2020	$10.17	$0.00	1.64%	11,706,199	$10.16	$10.17	$0.01	0.10%	126,307,342	$1,283,914,131
7/24/2020	$10.14	$0.00	-0.25%	5,960,301	$10.13	$10.14	$0.01	0.10%	126,307,342	$1,280,756,448
7/27/2020	$10.53	$0.00	3.77%	8,936,013	$10.53	$10.54	$0.01	0.09%	126,307,342	$1,330,016,311
7/28/2020	$10.35	$0.00	-1.72%	7,748,455	$10.35	$10.36	$0.01	0.10%	126,307,342	$1,307,280,990
7/29/2020	$10.85	$0.00	4.72%	5,726,884	$10.84	$10.85	$0.01	0.09%	126,307,342	$1,370,434,661
7/30/2020	$10.96	$0.00	1.01%	14,298,585	$10.94	$10.95	$0.01	0.09%	126,307,342	$1,384,328,468
7/31/2020	$10.82	$0.00	-1.29%	8,839,285	$10.81	$10.82	$0.01	0.09%	126,307,342	$1,366,645,440
8/3/2020	$11.05	$0.00	2.10%	6,099,985	$11.04	$11.05	$0.01	0.09%	126,307,342	$1,395,696,129
8/4/2020	$11.43	$0.00	3.38%	4,706,318	$11.43	$11.44	$0.01	0.09%	126,307,342	$1,443,692,919
8/5/2020	$11.77	$0.00	2.93%	5,142,948	$11.76	$11.77	$0.01	0.08%	126,307,342	$1,486,637,415
8/6/2020	$12.00	$0.00	1.94%	5,565,543	$12.00	$12.01	$0.01	0.08%	126,307,342	$1,515,688,104
8/7/2020	$12.11	$0.00	0.91%	9,566,336	$12.11	$12.12	$0.01	0.08%	126,307,342	$1,529,581,912
8/10/2020	$12.66	$0.00	4.44%	8,907,716	$12.66	$12.67	$0.01	0.08%	126,307,342	$1,599,050,950
8/11/2020	$11.93	$0.00	-5.94%	11,841,970	$11.92	$11.93	$0.01	0.08%	126,307,342	$1,506,846,590
8/12/2020	$12.12	$0.00	1.58%	5,984,489	$12.11	$12.12	$0.01	0.08%	126,307,342	$1,530,844,985
8/13/2020	$12.34	$0.00	1.80%	4,608,327	$12.34	$12.35	$0.01	0.08%	126,307,342	$1,558,632,600
8/14/2020	$12.35	$0.00	0.08%	3,626,007	$12.35	$12.36	$0.01	0.08%	126,307,342	$1,559,895,674
8/17/2020	$12.87	$0.00	4.12%	6,424,555	$12.87	$12.88	$0.01	0.08%	126,307,342	$1,625,575,492
8/18/2020	$12.20	$0.00	-5.35%	6,826,954	$12.20	$12.21	$0.01	0.08%	126,307,342	$1,540,949,572
8/19/2020	$12.20	$0.00	0.00%	5,430,369	$12.19	$12.20	$0.01	0.08%	126,307,342	$1,540,949,572
8/20/2020	$11.47	$0.00	-6.17%	7,512,965	$11.47	$11.48	$0.01	0.09%	126,307,342	$1,448,745,213
8/21/2020	$11.67	$0.00	1.73%	5,701,776	$11.67	$11.68	$0.01	0.09%	126,307,342	$1,474,006,681
8/24/2020	$12.27	$0.00	4.97%	8,133,053	$12.26	$12.27	$0.01	0.08%	126,307,342	$1,549,159,550
8/25/2020	$12.32	$0.00	0.45%	5,182,001	$12.32	$12.33	$0.01	0.08%	126,307,342	$1,556,106,453
8/26/2020	$12.18	$0.00	-1.14%	4,999,455	$12.17	$12.18	$0.01	0.08%	126,307,342	$1,538,423,426
8/27/2020	$11.91	$0.00	-2.24%	5,926,222	$11.90	$11.91	$0.01	0.08%	126,307,342	$1,504,320,443
8/28/2020	$12.09	$0.00	1.46%	5,884,127	$12.08	$12.09	$0.01	0.08%	126,307,342	$1,526,424,228
8/31/2020	$12.18	$0.00	0.78%	6,683,304	$12.18	$12.19	$0.01	0.08%	126,008,219	$1,534,780,107
9/1/2020	$13.04	$0.00	6.82%	9,191,356	$13.03	$13.04	$0.01	0.08%	126,008,219	$1,643,147,176
9/2/2020	$12.44	$0.00	-4.75%	7,012,538	$12.43	$12.44	$0.01	0.08%	126,008,219	$1,566,912,203
9/3/2020	$11.83	$0.00	-4.99%	5,369,492	$11.83	$11.84	$0.01	0.08%	126,008,219	$1,490,677,231
9/4/2020	$11.75	$0.00	-0.68%	6,059,759	$11.74	$11.75	$0.01	0.09%	126,008,219	$1,480,596,573
9/8/2020	$11.32	$0.00	-3.73%	5,964,383	$11.31	$11.32	$0.01	0.09%	126,008,219	$1,426,413,039
9/9/2020	$11.42	$0.00	0.88%	4,759,716	$11.41	$11.42	$0.01	0.09%	126,008,219	$1,439,013,861
9/10/2020	$11.98	$0.00	4.79%	15,576,953	$11.98	$11.99	$0.01	0.08%	126,008,219	$1,509,578,464
9/11/2020	$12.04	$0.00	0.46%	4,885,116	$12.03	$12.04	$0.01	0.08%	126,008,219	$1,516,508,916
9/14/2020	$12.69	$0.00	5.30%	6,165,841	$12.69	$12.70	$0.01	0.08%	126,008,219	$1,599,044,299
9/15/2020	$12.55	$0.00	-1.11%	8,013,017	$12.55	$12.56	$0.01	0.08%	126,008,219	$1,581,403,148
9/16/2020	$12.83	$0.00	2.21%	6,602,400	$12.82	$12.83	$0.01	0.08%	126,008,219	$1,616,685,450
9/17/2020	$12.73	$0.00	-0.78%	4,478,021	$12.72	$12.73	$0.01	0.08%	126,008,219	$1,604,084,628
9/18/2020	$12.56	$0.00	-1.34%	6,338,583	$12.57	$12.58	$0.01	0.08%	126,008,219	$1,582,663,231
9/21/2020	$12.38	$0.00	-1.48%	6,292,601	$12.37	$12.38	$0.01	0.08%	126,008,219	$1,559,351,710
9/22/2020	$13.91	$0.00	11.66%	20,097,356	$13.90	$13.91	$0.01	0.07%	126,008,219	$1,752,144,285
9/23/2020	$13.36	$0.00	-4.04%	6,738,974	$13.35	$13.36	$0.01	0.07%	126,008,219	$1,682,839,765
9/24/2020	$13.93	$0.00	4.22%	13,563,127	$13.93	$13.94	$0.01	0.07%	126,008,219	$1,755,294,491
9/25/2020	$14.53	$0.00	4.22%	9,359,069	$14.53	$14.54	$0.01	0.07%	126,008,219	$1,830,899,422
9/28/2020	$14.88	$0.00	2.38%	9,329,126	$14.89	$14.90	$0.01	0.07%	126,008,219	$1,875,002,299
9/29/2020	$14.51	$0.00	-2.52%	6,950,331	$14.50	$14.51	$0.01	0.07%	126,008,219	$1,828,379,258
9/30/2020	$14.98	$0.00	3.19%	11,843,443	$14.98	$14.99	$0.01	0.07%	126,008,219	$1,887,603,121
10/1/2020	$18.75	$0.00	22.42%	83,642,830	$18.74	$18.75	$0.01	0.05%	126,008,219	$2,362,024,065
10/2/2020	$20.60	$0.00	9.44%	33,549,846	$20.59	$20.60	$0.01	0.05%	126,008,219	$2,595,769,311
10/5/2020	$20.49	$0.00	-0.54%	20,709,010	$20.48	$20.49	$0.01	0.05%	126,008,219	$2,581,908,407
10/6/2020	$19.97	$0.00	-2.57%	16,826,407	$19.97	$19.98	$0.01	0.05%	126,008,219	$2,516,384,133
10/7/2020	$20.85	$0.00	4.31%	12,415,332	$20.84	$20.85	$0.01	0.05%	126,008,219	$2,627,271,366

Exhibit-3c

BBBY Market Efficiency Statistics

January 28, 2020 through January 27, 2021

Date	Closing Price [a]	Dividend [b]	Log Return [b]	Volume [c]	Closing Bid [d]	Closing Ask [e]	Closing Bid/Ask Spread	Average Bid/Ask Spread %	Outstanding Shares [f]	Market Capitalization [g]
10/8/2020	$21.76	$0.00	4.27%	7,936,935	$21.75	$21.76	$0.01	0.05%	126,008,219	$2,741,938,845
10/9/2020	$21.46	$0.00	-1.39%	8,061,406	$21.46	$21.47	$0.01	0.05%	126,008,219	$2,704,136,380
10/12/2020	$21.55	$0.00	0.42%	5,886,412	$21.55	$21.57	$0.02	0.09%	126,008,219	$2,715,477,119
10/13/2020	$22.15	$0.00	2.72%	9,535,110	$22.14	$22.15	$0.01	0.05%	126,008,219	$2,790,452,010
10/14/2020	$23.95	$0.00	7.81%	27,113,215	$23.94	$23.95	$0.01	0.04%	126,008,219	$3,017,266,804
10/15/2020	$24.96	$0.00	4.15%	10,412,889	$24.95	$24.96	$0.01	0.04%	126,008,219	$3,145,165,146
10/16/2020	$24.84	$0.00	-0.50%	11,402,382	$24.83	$24.84	$0.01	0.04%	126,008,219	$3,129,414,119
10/19/2020	$24.89	$0.00	0.22%	7,876,674	$24.89	$24.90	$0.01	0.04%	126,008,219	$3,136,344,571
10/20/2020	$24.99	$0.00	0.40%	8,676,145	$24.98	$24.99	$0.01	0.04%	126,008,219	$3,148,945,393
10/21/2020	$24.44	$0.00	-2.23%	4,610,042	$24.44	$24.45	$0.01	0.04%	126,008,219	$3,079,640,872
10/22/2020	$25.17	$0.00	2.94%	6,126,302	$25.18	$25.20	$0.02	0.08%	126,008,219	$3,171,626,872
10/23/2020	$25.36	$0.00	0.75%	5,446,067	$25.35	$25.36	$0.01	0.04%	126,008,219	$3,195,568,434
10/26/2020	$24.73	$0.00	-2.52%	4,877,320	$24.74	$24.75	$0.01	0.04%	126,008,219	$3,116,183,256
10/27/2020	$24.01	$0.00	-2.95%	4,905,982	$24.00	$24.01	$0.01	0.04%	126,008,219	$3,025,457,338
10/28/2020	$21.10	$0.00	-12.92%	19,795,250	$21.09	$21.10	$0.01	0.05%	126,008,219	$2,658,773,421
10/29/2020	$20.53	$0.00	-2.74%	9,377,001	$20.52	$20.53	$0.01	0.05%	126,008,219	$2,586,948,736
10/30/2020	$19.80	$0.00	-3.62%	8,602,717	$19.79	$19.80	$0.01	0.05%	126,008,219	$2,494,962,736
11/2/2020	$20.20	$0.00	2.00%	6,045,230	$20.20	$20.21	$0.01	0.05%	126,008,219	$2,545,366,024
11/3/2020	$20.67	$0.00	2.30%	6,264,755	$20.66	$20.67	$0.01	0.05%	126,008,219	$2,604,589,887
11/4/2020	$21.02	$0.00	1.68%	5,982,274	$21.01	$21.02	$0.01	0.05%	126,008,219	$2,648,692,763
11/5/2020	$21.50	$0.00	2.26%	4,469,030	$21.50	$21.51	$0.01	0.05%	126,008,219	$2,709,176,709
11/6/2020	$21.44	$0.00	-0.28%	4,292,026	$21.44	$21.45	$0.01	0.05%	126,008,219	$2,701,616,215
11/9/2020	$18.64	$0.00	-13.99%	14,899,160	$18.63	$18.64	$0.01	0.05%	126,008,219	$2,348,793,202
11/10/2020	$18.95	$0.00	1.65%	10,280,547	$18.94	$18.95	$0.01	0.05%	126,008,219	$2,387,855,750
11/11/2020	$19.80	$0.00	4.39%	8,986,924	$19.78	$19.80	$0.02	0.10%	126,008,219	$2,494,962,736
11/12/2020	$19.73	$0.00	-0.35%	5,745,093	$19.72	$19.73	$0.01	0.05%	126,008,219	$2,486,142,161
11/13/2020	$20.23	$0.00	2.50%	6,304,213	$20.22	$20.23	$0.01	0.05%	126,008,219	$2,549,146,270
11/16/2020	$20.54	$0.00	1.52%	8,427,373	$20.53	$20.54	$0.01	0.05%	126,008,219	$2,588,208,818
11/17/2020	$20.12	$0.00	-2.07%	7,041,672	$20.11	$20.12	$0.01	0.05%	126,008,219	$2,535,285,366
11/18/2020	$19.87	$0.00	-1.28%	6,925,720	$19.86	$19.87	$0.01	0.05%	126,008,219	$2,503,153,270
11/19/2020	$20.43	$0.00	2.80%	4,913,651	$20.43	$20.44	$0.01	0.05%	126,008,219	$2,574,347,914
11/20/2020	$20.24	$0.00	-0.93%	4,735,402	$20.24	$20.25	$0.01	0.05%	126,008,219	$2,550,406,353
11/23/2020	$20.79	$0.00	2.68%	9,487,709	$20.79	$20.80	$0.01	0.05%	126,008,219	$2,619,710,873
11/24/2020	$21.97	$0.00	5.52%	9,697,066	$21.96	$21.98	$0.02	0.09%	126,008,219	$2,768,400,571
11/25/2020	$21.72	$0.00	-1.14%	10,310,214	$21.70	$21.71	$0.01	0.05%	126,008,219	$2,736,898,517
11/27/2020	$21.80	$0.00	0.37%	3,805,161	$21.79	$21.80	$0.01	0.05%	126,008,219	$2,746,979,174
11/30/2020	$20.96	$0.00	-3.93%	7,236,502	$20.95	$20.96	$0.01	0.05%	121,214,724	$2,540,660,615
12/1/2020	$20.38	$0.00	-2.81%	7,815,142	$20.38	$20.39	$0.01	0.05%	121,214,724	$2,470,356,075
12/2/2020	$20.32	$0.00	-0.29%	6,040,633	$20.32	$20.33	$0.01	0.05%	121,214,724	$2,463,083,192
12/3/2020	$19.57	$0.00	-3.76%	7,510,923	$19.56	$19.57	$0.01	0.05%	121,214,724	$2,372,172,149
12/4/2020	$19.70	$0.00	0.66%	6,296,278	$19.69	$19.70	$0.01	0.05%	121,214,724	$2,387,930,063
12/7/2020	$19.17	$0.00	-2.73%	7,214,388	$19.17	$19.18	$0.01	0.05%	121,214,724	$2,323,686,259
12/8/2020	$18.59	$0.00	-3.07%	9,601,336	$18.59	$18.60	$0.01	0.05%	121,214,724	$2,253,381,719
12/9/2020	$18.51	$0.00	-0.43%	8,839,138	$18.50	$18.51	$0.01	0.05%	121,214,724	$2,243,684,541
12/10/2020	$18.96	$0.00	2.40%	6,938,530	$18.95	$18.96	$0.01	0.05%	121,214,724	$2,298,231,167
12/11/2020	$19.17	$0.00	1.10%	6,266,703	$19.16	$19.17	$0.01	0.05%	121,214,724	$2,323,686,259
12/14/2020	$18.87	$0.00	-1.58%	9,456,415	$18.87	$18.88	$0.01	0.05%	121,214,724	$2,287,321,842
12/15/2020	$19.53	$0.00	3.44%	8,995,667	$19.52	$19.53	$0.01	0.05%	121,214,724	$2,367,323,560
12/16/2020	$19.81	$0.00	1.42%	6,162,424	$19.82	$19.83	$0.01	0.05%	121,214,724	$2,401,263,682
12/17/2020	$19.80	$0.00	-0.05%	5,378,626	$19.80	$19.81	$0.01	0.05%	121,214,724	$2,400,051,535
12/18/2020	$18.72	$0.00	-5.61%	8,432,817	$18.72	$18.73	$0.01	0.05%	121,214,724	$2,269,139,633
12/21/2020	$19.26	$0.00	2.84%	7,502,712	$19.24	$19.25	$0.01	0.05%	121,214,724	$2,334,595,584
12/22/2020	$18.99	$0.00	-1.41%	5,593,682	$18.98	$18.99	$0.01	0.05%	121,214,724	$2,301,867,609
12/23/2020	$18.88	$0.00	-0.58%	4,771,362	$18.88	$18.89	$0.01	0.05%	121,214,724	$2,288,533,989
12/24/2020	$18.60	$0.00	-1.49%	2,423,329	$18.60	$18.61	$0.01	0.05%	121,214,724	$2,254,593,866
12/28/2020	$18.77	$0.00	0.91%	5,862,472	$18.77	$18.78	$0.01	0.05%	121,214,724	$2,275,200,369
12/29/2020	$18.83	$0.00	0.32%	6,367,655	$18.82	$18.83	$0.01	0.05%	121,214,724	$2,282,473,253
12/30/2020	$18.65	$0.00	-0.96%	5,405,700	$18.64	$18.65	$0.01	0.05%	121,214,724	$2,260,654,603
12/31/2020	$17.76	$0.00	-4.89%	12,460,939	$17.76	$17.77	$0.01	0.06%	121,214,724	$2,152,773,498

Exhibit-3c

BBBY Market Efficiency Statistics

January 28, 2020 through January 27, 2021

Date	Closing Price [a]	Dividend [b]	Log Return [b]	Volume [c]	Closing Bid [d]	Closing Ask [e]	Closing Bid/Ask Spread	Average Bid/Ask Spread %	Outstanding Shares [f]	Market Capitalization [g]
1/4/2021	$18.03	$0.00	1.51%	13,929,307	$18.03	$18.05	$0.02	0.11%	121,214,724	$2,185,501,474
1/5/2021	$19.76	$0.00	9.16%	13,642,795	$19.76	$19.77	$0.01	0.05%	121,214,724	$2,395,202,946
1/6/2021	$21.03	$0.00	6.23%	19,048,259	$21.02	$21.03	$0.01	0.05%	121,214,724	$2,549,145,646
1/7/2021	$18.73	$0.00	-11.58%	39,271,433	$18.72	$18.73	$0.01	0.05%	121,214,724	$2,270,351,781
1/8/2021	$18.94	$0.00	1.11%	11,184,462	$18.93	$18.94	$0.01	0.05%	121,214,724	$2,295,806,873
1/11/2021	$20.49	$0.00	7.87%	16,114,142	$20.48	$20.49	$0.01	0.05%	121,214,724	$2,483,689,695
1/12/2021	$21.53	$0.00	4.93%	8,796,418	$21.52	$21.53	$0.01	0.05%	121,214,724	$2,609,146,934
1/13/2021	$23.02	$0.00	6.71%	18,978,990	$23.03	$23.04	$0.01	0.04%	121,214,724	$2,790,362,946
1/14/2021	$27.34	$0.00	17.20%	29,152,145	$27.33	$27.34	$0.01	0.04%	121,214,724	$3,314,010,554
1/15/2021	$25.60	$0.00	-6.60%	13,639,220	$25.59	$25.60	$0.01	0.04%	121,214,724	$3,102,490,861
1/19/2021	$25.03	$0.00	-2.23%	9,006,910	$25.02	$25.03	$0.01	0.04%	121,214,724	$3,034,004,542
1/20/2021	$24.97	$0.00	-0.24%	7,010,945	$24.98	$24.99	$0.01	0.04%	121,214,724	$3,026,731,658
1/21/2021	$26.87	$0.00	7.33%	16,623,258	$26.85	$26.86	$0.01	0.04%	121,214,724	$3,257,039,634
1/22/2021	$30.21	$0.00	11.72%	38,905,657	$30.18	$30.21	$0.03	0.10%	121,214,724	$3,661,896,812
1/25/2021	$30.68	$0.00	1.54%	88,702,345	$30.67	$30.68	$0.01	0.03%	121,214,724	$3,718,867,732
1/26/2021	$36.87	$0.00	18.38%	63,881,930	$36.81	$36.86	$0.05	0.14%	121,214,724	$4,469,186,874
1/27/2021	$52.89	$0.00	36.08%	89,784,262	$52.94	$52.95	$0.01	0.02%	121,214,724	$6,411,046,752
Average	$13.43	$0.00	0.49%	12,423,875	$13.42	$13.43	$0.01	0.10%	125,580,499	$1,678.5 million
Median	$11.93	$0.00	0.46%	9,243,991	$11.92	$11.93	$0.01	0.09%	126,307,342	$1,506.8 million
High	$52.89	$0.17	36.08%	89,784,262	$52.94	$52.95	$0.05	0.28%	126,960,648	$6,411.0 million
Low	$3.56	$0.00	-28.10%	2,423,329	$3.55	$3.56	$0.01	0.02%	121,214,724	$450.5 million

Source: CRSP & SEC Filings.

Exhibit-3d

EXPR Market Efficiency Statistics

January 28, 2020 through January 27, 2021

Date	Closing Price	Dividend	Log Return	Volume	Closing Bid	Closing Ask	Closing Bid/Ask Spread	Average Bid/Ask Spread %	Outstanding Shares	Market Capitalization
	[a]	[b]	[b]	[c]	[d]	[e]			[f]	[g]
1/28/2020	$4.58	$0.00	-4.27%	1,289,226	$4.57	$4.58	$0.01	0.22%	63,907,212	$292,695,031
1/29/2020	$4.32	$0.00	-5.84%	1,221,044	$4.31	$4.32	$0.01	0.23%	63,907,212	$276,079,156
1/30/2020	$4.18	$0.00	-3.29%	1,316,733	$4.17	$4.18	$0.01	0.24%	63,907,212	$267,132,146
1/31/2020	$4.01	$0.00	-4.15%	1,804,912	$4.01	$4.02	$0.01	0.25%	63,907,212	$256,267,920
2/3/2020	$4.15	$0.00	3.43%	1,881,378	$4.14	$4.15	$0.01	0.24%	63,907,212	$265,214,930
2/4/2020	$4.39	$0.00	5.62%	1,783,859	$4.39	$4.40	$0.01	0.23%	63,907,212	$280,552,661
2/5/2020	$4.52	$0.00	2.92%	1,979,946	$4.51	$4.52	$0.01	0.22%	63,907,212	$288,860,598
2/6/2020	$4.54	$0.00	0.44%	1,157,838	$4.53	$4.54	$0.01	0.22%	63,907,212	$290,138,742
2/7/2020	$4.23	$0.00	-7.07%	2,060,633	$4.22	$4.23	$0.01	0.24%	63,907,212	$270,327,507
2/10/2020	$4.24	$0.00	0.24%	730,908	$4.23	$4.24	$0.01	0.24%	63,907,212	$270,966,579
2/11/2020	$4.33	$0.00	2.10%	1,030,703	$4.33	$4.34	$0.01	0.23%	63,907,212	$276,718,228
2/12/2020	$4.47	$0.00	3.18%	1,514,421	$4.48	$4.49	$0.01	0.22%	63,907,212	$285,665,238
2/13/2020	$4.33	$0.00	-3.18%	801,553	$4.33	$4.34	$0.01	0.23%	63,907,212	$276,718,228
2/14/2020	$4.37	$0.00	0.92%	731,785	$4.37	$4.38	$0.01	0.23%	63,907,212	$279,274,516
2/18/2020	$4.32	$0.00	-1.15%	771,452	$4.31	$4.32	$0.01	0.23%	63,907,212	$276,079,156
2/19/2020	$4.36	$0.00	0.92%	719,235	$4.35	$4.36	$0.01	0.23%	63,907,212	$278,635,444
2/20/2020	$4.58	$0.00	4.92%	831,370	$4.58	$4.59	$0.01	0.22%	63,907,212	$292,695,031
2/21/2020	$4.46	$0.00	-2.66%	912,206	$4.45	$4.46	$0.01	0.22%	63,907,212	$285,026,166
2/24/2020	$4.09	$0.00	-8.66%	1,511,394	$4.08	$4.09	$0.01	0.24%	63,907,212	$261,380,497
2/25/2020	$3.90	$0.00	-4.76%	1,190,431	$3.90	$3.91	$0.01	0.26%	63,907,212	$249,238,127
2/26/2020	$3.78	$0.00	-3.13%	1,114,741	$3.77	$3.78	$0.01	0.26%	63,907,212	$241,569,261
2/27/2020	$3.80	$0.00	0.53%	1,805,645	$3.79	$3.80	$0.01	0.26%	63,907,212	$242,847,406
2/28/2020	$3.70	$0.00	-2.67%	1,879,804	$3.70	$3.71	$0.01	0.27%	63,907,212	$236,456,684
3/2/2020	$3.49	$0.00	-5.84%	1,290,856	$3.49	$3.50	$0.01	0.29%	63,924,618	$223,096,917
3/3/2020	$3.12	$0.00	-11.21%	2,692,224	$3.11	$3.12	$0.01	0.32%	63,924,618	$199,444,808
3/4/2020	$3.16	$0.00	1.27%	1,207,883	$3.14	$3.15	$0.01	0.32%	63,924,618	$202,001,793
3/5/2020	$2.97	$0.00	-6.20%	2,270,593	$2.96	$2.97	$0.01	0.34%	63,924,618	$189,856,115
3/6/2020	$3.00	$0.00	1.01%	2,094,712	$2.99	$3.00	$0.01	0.33%	63,924,618	$191,773,854
3/9/2020	$2.61	$0.00	-13.93%	1,131,693	$2.60	$2.61	$0.01	0.38%	63,924,618	$166,843,253
3/10/2020	$2.48	$0.00	-5.11%	1,597,516	$2.46	$2.47	$0.01	0.41%	63,924,618	$158,533,053
3/11/2020	$2.30	$0.00	-7.53%	4,859,395	$2.30	$2.31	$0.01	0.43%	63,924,618	$147,026,621
3/12/2020	$2.19	$0.00	-4.90%	2,014,415	$2.18	$2.19	$0.01	0.46%	63,924,618	$139,994,913
3/13/2020	$2.16	$0.00	-1.38%	2,999,613	$2.15	$2.16	$0.01	0.46%	63,924,618	$138,077,175
3/16/2020	$1.60	$0.00	-30.01%	2,068,120	$1.60	$1.61	$0.01	0.62%	63,924,618	$102,279,389
3/17/2020	$1.68	$0.00	4.88%	1,860,405	$1.67	$1.69	$0.02	1.19%	63,924,618	$107,393,358
3/18/2020	$1.57	$0.00	-6.77%	1,431,115	$1.56	$1.57	$0.01	0.64%	63,924,618	$100,361,650
3/19/2020	$1.83	$0.00	15.32%	1,552,316	$1.82	$1.83	$0.01	0.55%	63,924,618	$116,982,051
3/20/2020	$1.72	$0.00	-6.20%	2,940,758	$1.71	$1.73	$0.02	1.16%	63,924,618	$109,950,343
3/23/2020	$1.69	$0.00	-1.76%	850,002	$1.68	$1.69	$0.01	0.59%	63,924,618	$108,032,604
3/24/2020	$1.67	$0.00	-1.19%	1,408,799	$1.65	$1.66	$0.01	0.60%	63,924,618	$106,754,112
3/25/2020	$1.77	$0.00	5.82%	1,540,272	$1.77	$1.78	$0.01	0.56%	63,924,618	$113,146,574
3/26/2020	$2.01	$0.00	12.72%	1,353,582	$1.98	$1.99	$0.01	0.50%	63,924,618	$128,488,482
3/27/2020	$1.92	$0.00	-4.58%	451,461	$1.91	$1.92	$0.01	0.52%	63,924,618	$122,735,267
3/30/2020	$1.64	$0.00	-15.76%	1,298,239	$1.63	$1.64	$0.01	0.61%	63,924,618	$104,836,374
3/31/2020	$1.49	$0.00	-9.59%	2,124,304	$1.48	$1.49	$0.01	0.67%	63,924,618	$95,247,681
4/1/2020	$1.36	$0.00	-9.13%	1,606,795	$1.35	$1.36	$0.01	0.74%	63,924,618	$86,937,480
4/2/2020	$1.39	$0.00	2.18%	1,283,820	$1.38	$1.39	$0.01	0.72%	63,924,618	$88,855,219
4/3/2020	$1.32	$0.00	-5.17%	1,639,352	$1.31	$1.32	$0.01	0.76%	63,924,618	$84,380,496
4/6/2020	$1.46	$0.00	10.08%	1,842,367	$1.45	$1.46	$0.01	0.69%	63,924,618	$93,329,942
4/7/2020	$1.66	$0.00	12.84%	1,636,009	$1.66	$1.67	$0.01	0.60%	63,924,618	$106,114,866
4/8/2020	$2.12	$0.00	24.46%	1,769,744	$2.14	$2.16	$0.02	0.93%	63,924,618	$135,520,190
4/9/2020	$2.58	$0.00	19.64%	2,942,258	$2.58	$2.59	$0.01	0.39%	63,924,618	$164,925,514
4/13/2020	$2.04	$0.00	-23.48%	2,175,040	$2.03	$2.04	$0.01	0.49%	63,924,618	$130,406,221
4/14/2020	$2.40	$0.00	16.25%	1,739,952	$2.39	$2.40	$0.01	0.42%	63,924,618	$153,419,083
4/15/2020	$2.00	$0.00	-18.23%	1,516,900	$2.00	$2.01	$0.01	0.50%	63,924,618	$127,849,236
4/16/2020	$1.98	$0.00	-1.01%	579,595	$1.97	$1.98	$0.01	0.51%	63,924,618	$126,570,744
4/17/2020	$2.01	$0.00	1.50%	1,026,146	$2.01	$2.02	$0.01	0.50%	63,924,618	$128,488,482
4/20/2020	$1.92	$0.00	-4.58%	1,280,497	$1.92	$1.93	$0.01	0.52%	63,924,618	$122,735,267
4/21/2020	$1.83	$0.00	-4.80%	930,692	$1.82	$1.83	$0.01	0.55%	63,924,618	$116,982,051

Exhibit-3d

EXPR Market Efficiency Statistics

January 28, 2020 through January 27, 2021

Date	Closing Price	Dividend	Log Return	Volume	Closing Bid	Closing Ask	Closing Bid/Ask Spread	Average Bid/Ask Spread %	Outstanding Shares	Market Capitalization
	[a]	[b]	[b]	[c]	[d]	[e]			[f]	[g]
4/22/2020	$1.69	$0.00	-7.96%	1,271,703	$1.68	$1.69	$0.01	0.59%	63,924,618	$108,032,604
4/23/2020	$1.63	$0.00	-3.61%	1,754,916	$1.62	$1.63	$0.01	0.62%	63,924,618	$104,197,127
4/24/2020	$1.65	$0.00	1.22%	1,176,966	$1.65	$1.66	$0.01	0.60%	63,924,618	$105,475,620
4/27/2020	$1.78	$0.00	7.58%	1,283,871	$1.78	$1.79	$0.01	0.56%	63,924,618	$113,785,820
4/28/2020	$2.07	$0.00	15.09%	2,030,287	$2.08	$2.09	$0.01	0.48%	63,924,618	$132,323,959
4/29/2020	$2.04	$0.00	-1.46%	1,722,979	$2.04	$2.05	$0.01	0.49%	63,924,618	$130,406,221
4/30/2020	$2.07	$0.00	1.46%	5,258,699	$2.07	$2.08	$0.01	0.48%	63,924,618	$132,323,959
5/1/2020	$1.92	$0.00	-7.52%	1,550,398	$1.91	$1.92	$0.01	0.52%	63,924,618	$122,735,267
5/4/2020	$1.81	$0.00	-5.90%	534,304	$1.81	$1.82	$0.01	0.55%	63,924,618	$115,703,559
5/5/2020	$1.72	$0.00	-5.10%	1,240,659	$1.72	$1.73	$0.01	0.58%	63,924,618	$109,950,343
5/6/2020	$1.60	$0.00	-7.23%	1,721,586	$1.60	$1.61	$0.01	0.62%	63,924,618	$102,279,389
5/7/2020	$1.70	$0.00	6.06%	1,378,749	$1.68	$1.69	$0.01	0.59%	63,924,618	$108,671,851
5/8/2020	$1.80	$0.00	5.72%	1,254,545	$1.79	$1.80	$0.01	0.56%	63,924,618	$115,064,312
5/11/2020	$1.75	$0.00	-2.82%	1,000,181	$1.76	$1.77	$0.01	0.57%	63,924,618	$111,868,082
5/12/2020	$1.64	$0.00	-6.49%	1,075,044	$1.64	$1.65	$0.01	0.61%	63,924,618	$104,836,374
5/13/2020	$1.59	$0.00	-3.10%	981,864	$1.59	$1.60	$0.01	0.63%	63,924,618	$101,640,143
5/14/2020	$1.60	$0.00	0.63%	1,084,313	$1.60	$1.61	$0.01	0.62%	63,924,618	$102,279,389
5/15/2020	$1.67	$0.00	4.28%	1,404,335	$1.67	$1.68	$0.01	0.60%	63,924,618	$106,754,112
5/18/2020	$1.81	$0.00	8.05%	1,373,206	$1.80	$1.81	$0.01	0.55%	63,924,618	$115,703,559
5/19/2020	$1.75	$0.00	-3.37%	987,526	$1.75	$1.76	$0.01	0.57%	63,924,618	$111,868,082
5/20/2020	$1.77	$0.00	1.14%	928,554	$1.76	$1.77	$0.01	0.57%	63,924,618	$113,146,574
5/21/2020	$1.91	$0.00	7.61%	2,871,335	$1.91	$1.92	$0.01	0.52%	63,924,618	$122,096,020
5/22/2020	$1.87	$0.00	-2.12%	784,856	$1.86	$1.87	$0.01	0.54%	63,924,618	$119,539,036
5/26/2020	$1.95	$0.00	4.19%	1,065,527	$1.94	$1.95	$0.01	0.51%	63,924,618	$124,653,005
5/27/2020	$2.08	$0.00	6.45%	1,951,287	$2.08	$2.09	$0.01	0.48%	63,924,618	$132,963,205
5/28/2020	$2.02	$0.00	-2.93%	1,487,330	$2.02	$2.03	$0.01	0.49%	63,924,618	$129,127,728
5/29/2020	$1.96	$0.00	-3.02%	1,280,282	$1.95	$1.96	$0.01	0.51%	63,924,618	$125,292,251
6/1/2020	$1.86	$0.00	-5.24%	1,737,869	$1.86	$1.87	$0.01	0.54%	64,459,170	$119,894,056
6/2/2020	$2.03	$0.00	8.75%	1,566,055	$2.02	$2.03	$0.01	0.49%	64,459,170	$130,852,115
6/3/2020	$1.87	$0.00	-8.21%	4,113,986	$1.86	$1.87	$0.01	0.54%	64,459,170	$120,538,648
6/4/2020	$1.89	$0.00	1.06%	1,702,625	$1.88	$1.89	$0.01	0.53%	64,459,170	$121,827,831
6/5/2020	$2.05	$0.00	8.13%	3,348,770	$2.04	$2.05	$0.01	0.49%	64,459,170	$132,141,299
6/8/2020	$2.55	$0.00	21.83%	3,820,784	$2.54	$2.55	$0.01	0.39%	64,459,170	$164,370,884
6/9/2020	$2.49	$0.00	-2.38%	2,375,688	$2.48	$2.49	$0.01	0.40%	64,459,170	$160,503,333
6/10/2020	$2.20	$0.00	-12.38%	2,050,255	$2.20	$2.21	$0.01	0.45%	64,459,170	$141,810,174
6/11/2020	$1.88	$0.00	-15.72%	1,748,411	$1.87	$1.88	$0.01	0.53%	64,459,170	$121,183,240
6/12/2020	$1.95	$0.00	3.66%	1,356,233	$1.94	$1.95	$0.01	0.51%	64,459,170	$125,695,382
6/15/2020	$1.86	$0.00	-4.73%	2,109,492	$1.85	$1.86	$0.01	0.54%	64,459,170	$119,894,056
6/16/2020	$1.92	$0.00	3.17%	1,619,049	$1.92	$1.93	$0.01	0.52%	64,459,170	$123,761,606
6/17/2020	$1.88	$0.00	-2.11%	1,335,777	$1.88	$1.89	$0.01	0.53%	64,459,170	$121,183,240
6/18/2020	$1.85	$0.00	-1.61%	1,247,875	$1.85	$1.86	$0.01	0.54%	64,459,170	$119,249,465
6/19/2020	$1.87	$0.00	1.08%	4,795,217	$1.86	$1.87	$0.01	0.54%	64,459,170	$120,538,648
6/22/2020	$1.82	$0.00	-2.71%	1,644,080	$1.82	$1.83	$0.01	0.55%	64,459,170	$117,315,689
6/23/2020	$1.72	$0.00	-5.65%	1,465,868	$1.72	$1.73	$0.01	0.58%	64,459,170	$110,869,772
6/24/2020	$1.56	$0.00	-9.76%	1,826,805	$1.55	$1.56	$0.01	0.64%	64,459,170	$100,556,305
6/25/2020	$1.53	$0.00	-1.94%	969,104	$1.52	$1.53	$0.01	0.66%	64,459,170	$98,622,530
6/26/2020	$1.42	$0.00	-7.46%	2,675,172	$1.41	$1.42	$0.01	0.71%	64,459,170	$91,532,021
6/29/2020	$1.51	$0.00	6.15%	1,004,284	$1.50	$1.51	$0.01	0.66%	64,459,170	$97,333,347
6/30/2020	$1.54	$0.00	1.97%	1,255,441	$1.53	$1.54	$0.01	0.65%	64,459,170	$99,267,122
7/1/2020	$1.44	$0.00	-6.71%	1,873,854	$1.42	$1.43	$0.01	0.70%	64,459,170	$92,821,205
7/2/2020	$1.42	$0.00	-1.40%	1,319,007	$1.42	$1.43	$0.01	0.70%	64,459,170	$91,532,021
7/6/2020	$1.38	$0.00	-2.86%	1,616,756	$1.37	$1.38	$0.01	0.73%	64,459,170	$88,953,655
7/7/2020	$1.30	$0.00	-5.97%	1,513,179	$1.30	$1.31	$0.01	0.77%	64,459,170	$83,796,921
7/8/2020	$1.40	$0.00	7.41%	1,858,071	$1.39	$1.40	$0.01	0.72%	64,459,170	$90,242,838
7/9/2020	$1.50	$0.00	6.90%	3,619,395	$1.49	$1.50	$0.01	0.67%	64,459,170	$96,688,755
7/10/2020	$1.53	$0.00	1.98%	3,217,511	$1.52	$1.53	$0.01	0.66%	64,459,170	$98,622,530
7/13/2020	$1.39	$0.00	-9.60%	2,705,041	$1.39	$1.40	$0.01	0.72%	64,459,170	$89,598,246
7/14/2020	$1.38	$0.00	-0.72%	2,107,670	$1.37	$1.38	$0.01	0.73%	64,459,170	$88,953,655
7/15/2020	$1.42	$0.00	2.86%	2,948,338	$1.42	$1.43	$0.01	0.70%	64,459,170	$91,532,021

Exhibit-3d

EXPR Market Efficiency Statistics

January 28, 2020 through January 27, 2021

Date	Closing Price [a]	Dividend [b]	Log Return [b]	Volume [c]	Closing Bid [d]	Closing Ask [e]	Closing Bid/Ask Spread	Average Bid/Ask Spread %	Outstanding Shares [f]	Market Capitalization [g]
7/16/2020	$1.42	$0.00	0.00%	910,488	$1.41	$1.42	$0.01	0.71%	64,459,170	$91,532,021
7/17/2020	$1.39	$0.00	-2.14%	1,256,336	$1.39	$1.40	$0.01	0.72%	64,459,170	$89,598,246
7/20/2020	$1.33	$0.00	-4.41%	1,632,447	$1.32	$1.33	$0.01	0.75%	64,459,170	$85,730,696
7/21/2020	$1.31	$0.00	-1.52%	1,639,137	$1.30	$1.31	$0.01	0.77%	64,459,170	$84,441,513
7/22/2020	$1.27	$0.00	-3.10%	1,863,706	$1.27	$1.28	$0.01	0.78%	64,459,170	$81,863,146
7/23/2020	$1.24	$0.00	-2.39%	2,504,171	$1.23	$1.24	$0.01	0.81%	64,459,170	$79,929,371
7/24/2020	$1.21	$0.00	-2.45%	1,491,121	$1.20	$1.21	$0.01	0.83%	64,459,170	$77,995,596
7/27/2020	$1.15	$0.00	-5.09%	2,946,186	$1.14	$1.15	$0.01	0.87%	64,459,170	$74,128,046
7/28/2020	$1.14	$0.00	-0.87%	3,233,887	$1.12	$1.13	$0.01	0.89%	64,459,170	$73,483,454
7/29/2020	$1.09	$0.00	-4.49%	3,557,138	$1.08	$1.09	$0.01	0.92%	64,459,170	$70,260,495
7/30/2020	$1.11	$0.00	1.82%	2,285,682	$1.10	$1.11	$0.01	0.90%	64,459,170	$71,549,679
7/31/2020	$1.01	$0.00	-9.44%	2,262,729	$1.00	$1.01	$0.01	1.00%	64,459,170	$65,103,762
8/3/2020	$1.02	$0.00	0.99%	1,769,751	$1.01	$1.02	$0.01	0.99%	64,459,170	$65,748,353
8/4/2020	$1.16	$0.00	12.86%	2,768,405	$1.15	$1.16	$0.01	0.87%	64,459,170	$74,772,637
8/5/2020	$1.14	$0.00	-1.74%	1,688,898	$1.13	$1.14	$0.01	0.88%	64,459,170	$73,483,454
8/6/2020	$1.11	$0.00	-2.67%	765,551	$1.10	$1.11	$0.01	0.90%	64,459,170	$71,549,679
8/7/2020	$1.14	$0.00	2.67%	1,779,399	$1.13	$1.14	$0.01	0.88%	64,459,170	$73,483,454
8/10/2020	$1.23	$0.00	7.60%	2,495,222	$1.22	$1.23	$0.01	0.82%	64,459,170	$79,284,779
8/11/2020	$1.24	$0.00	0.81%	2,340,803	$1.23	$1.24	$0.01	0.81%	64,459,170	$79,929,371
8/12/2020	$1.19	$0.00	-4.12%	1,676,016	$1.18	$1.19	$0.01	0.84%	64,459,170	$76,706,412
8/13/2020	$1.24	$0.00	4.12%	1,590,272	$1.23	$1.24	$0.01	0.81%	64,459,170	$79,929,371
8/14/2020	$1.24	$0.00	0.00%	1,121,760	$1.23	$1.24	$0.01	0.81%	64,459,170	$79,929,371
8/17/2020	$1.27	$0.00	2.39%	1,869,382	$1.26	$1.27	$0.01	0.79%	64,459,170	$81,863,146
8/18/2020	$1.21	$0.00	-4.84%	1,916,871	$1.20	$1.21	$0.01	0.83%	64,459,170	$77,995,596
8/19/2020	$1.14	$0.00	-5.96%	2,574,863	$1.13	$1.14	$0.01	0.88%	64,459,170	$73,483,454
8/20/2020	$1.10	$0.00	-3.57%	1,425,777	$1.09	$1.10	$0.01	0.91%	64,459,170	$70,905,087
8/21/2020	$1.05	$0.00	-4.65%	2,734,702	$1.05	$1.06	$0.01	0.95%	64,459,170	$67,682,129
8/24/2020	$1.05	$0.00	0.00%	1,894,658	$1.05	$1.06	$0.01	0.95%	64,459,170	$67,682,129
8/25/2020	$1.13	$0.00	7.34%	2,574,289	$1.13	$1.14	$0.01	0.88%	64,459,170	$72,838,862
8/26/2020	$1.08	$0.00	-4.53%	3,199,996	$1.07	$1.08	$0.01	0.93%	64,459,170	$69,615,904
8/27/2020	$1.05	$0.00	-2.82%	1,281,436	$1.04	$1.05	$0.01	0.96%	64,459,170	$67,682,129
8/28/2020	$1.09	$0.00	3.74%	1,425,798	$1.08	$1.09	$0.01	0.92%	64,459,170	$70,260,495
8/31/2020	$1.11	$0.00	1.82%	1,123,043	$1.11	$1.12	$0.01	0.90%	64,837,737	$71,969,888
9/1/2020	$1.05	$0.00	-5.56%	1,716,436	$1.04	$1.05	$0.01	0.96%	64,837,737	$68,079,624
9/2/2020	$1.04	$0.00	-0.96%	1,925,829	$1.03	$1.04	$0.01	0.97%	64,837,737	$67,431,246
9/3/2020	$1.02	$0.00	-1.94%	1,968,959	$1.02	$1.03	$0.01	0.98%	64,837,737	$66,134,492
9/4/2020	$0.98	$0.00	-4.46%	4,128,239	$0.98	$0.98	$0.00	0.08%	64,837,737	$63,249,212
9/8/2020	$0.92	$0.00	-6.04%	3,977,733	$0.92	$0.92	$0.00	0.01%	64,837,737	$59,540,494
9/9/2020	$0.92	$0.00	0.03%	1,756,008	$0.92	$0.92	$0.00	0.01%	64,837,737	$59,559,945
9/10/2020	$0.90	$0.00	-2.07%	1,740,512	$0.91	$0.91	$0.00	0.11%	64,837,737	$58,340,996
9/11/2020	$0.88	$0.00	-1.67%	1,987,229	$0.88	$0.88	$0.00	0.01%	64,837,737	$57,374,913
9/14/2020	$0.97	$0.00	8.94%	2,688,374	$0.96	$0.97	$0.01	0.79%	64,837,737	$62,743,478
9/15/2020	$0.95	$0.00	-1.46%	857,411	$0.95	$0.96	$0.01	0.84%	64,837,737	$61,835,750
9/16/2020	$0.95	$0.00	-0.69%	2,165,563	$0.95	$0.95	$0.00	0.02%	64,837,737	$61,407,821
9/17/2020	$0.97	$0.00	2.52%	1,500,918	$0.97	$0.97	$0.00	0.01%	64,837,737	$62,976,894
9/18/2020	$0.90	$0.00	-7.78%	12,962,857	$0.90	$0.91	$0.01	1.05%	64,837,737	$58,263,190
9/21/2020	$0.81	$0.00	-11.00%	5,056,919	$0.81	$0.81	$0.00	0.20%	64,837,737	$52,194,378
9/22/2020	$0.77	$0.00	-4.45%	4,158,318	$0.77	$0.77	$0.00	0.17%	64,837,737	$49,925,057
9/23/2020	$0.70	$0.00	-9.35%	7,205,515	$0.70	$0.70	$0.00	0.10%	64,837,737	$45,470,705
9/24/2020	$0.71	$0.00	1.84%	8,010,380	$0.71	$0.72	$0.00	0.10%	64,837,737	$46,313,596
9/25/2020	$0.68	$0.00	-5.14%	4,617,736	$0.68	$0.68	$0.00	0.01%	64,837,737	$43,992,405
9/28/2020	$0.67	$0.00	-1.87%	8,330,686	$0.67	$0.67	$0.00	0.03%	64,837,737	$43,175,449
9/29/2020	$0.61	$0.00	-8.70%	5,810,852	$0.61	$0.61	$0.00	0.02%	64,837,737	$39,576,955
9/30/2020	$0.61	$0.00	-0.07%	6,972,624	$0.61	$0.61	$0.00	0.03%	64,837,737	$39,551,020
10/1/2020	$0.80	$0.00	26.73%	17,630,019	$0.80	$0.80	$0.00	0.21%	64,837,737	$51,669,193
10/2/2020	$0.82	$0.00	2.26%	8,230,127	$0.82	$0.82	$0.00	0.01%	64,837,737	$52,849,239
10/5/2020	$0.76	$0.00	-7.00%	3,495,906	$0.76	$0.76	$0.00	0.03%	64,837,737	$49,276,680
10/6/2020	$0.66	$0.00	-14.32%	6,800,543	$0.66	$0.66	$0.00	0.02%	64,837,737	$42,702,134
10/7/2020	$0.70	$0.00	6.64%	5,911,327	$0.70	$0.70	$0.00	0.16%	64,837,737	$45,632,799

Exhibit-3d

EXPR Market Efficiency Statistics

January 28, 2020 through January 27, 2021

Date	Closing Price	Dividend	Log Return	Volume	Closing Bid	Closing Ask	Closing Bid/Ask Spread	Average Bid/Ask Spread %	Outstanding Shares	Market Capitalization
	[a]	[b]	[b]	[c]	[d]	[e]			[f]	[g]
10/8/2020	$0.73	$0.00	3.66%	5,010,726	$0.73	$0.73	$0.00	0.01%	64,837,737	$47,331,548
10/9/2020	$0.75	$0.00	3.00%	5,799,387	$0.75	$0.75	$0.00	0.01%	64,837,737	$48,770,946
10/12/2020	$0.76	$0.00	1.36%	7,744,147	$0.76	$0.76	$0.00	0.09%	64,837,737	$49,438,774
10/13/2020	$0.72	$0.00	-5.47%	6,032,566	$0.72	$0.72	$0.00	0.10%	64,837,737	$46,806,362
10/14/2020	$0.74	$0.00	2.29%	6,731,390	$0.74	$0.74	$0.00	0.01%	64,837,737	$47,889,153
10/15/2020	$0.75	$0.00	1.68%	2,605,075	$0.75	$0.75	$0.00	0.17%	64,837,737	$48,699,624
10/16/2020	$0.75	$0.00	0.27%	3,424,695	$0.75	$0.75	$0.00	0.01%	64,837,737	$48,829,300
10/19/2020	$0.75	$0.00	-0.33%	2,494,958	$0.75	$0.75	$0.00	0.09%	64,837,737	$48,667,205
10/20/2020	$0.72	$0.00	-3.59%	3,256,896	$0.72	$0.72	$0.00	0.01%	64,837,737	$46,949,005
10/21/2020	$0.72	$0.00	-1.17%	2,564,210	$0.72	$0.72	$0.00	0.17%	64,837,737	$46,404,368
10/22/2020	$0.75	$0.00	4.04%	3,794,501	$0.75	$0.75	$0.00	0.01%	64,837,737	$48,317,082
10/23/2020	$0.77	$0.00	3.16%	2,087,059	$0.77	$0.77	$0.00	0.18%	64,837,737	$49,866,704
10/26/2020	$0.75	$0.00	-2.58%	2,118,441	$0.73	$0.74	$0.00	0.67%	64,837,737	$48,595,884
10/27/2020	$0.71	$0.00	-5.70%	4,291,756	$0.71	$0.71	$0.00	0.01%	64,837,737	$45,905,118
10/28/2020	$0.66	$0.00	-7.32%	4,693,896	$0.66	$0.66	$0.00	0.00%	64,837,737	$42,663,231
10/29/2020	$0.63	$0.00	-5.00%	6,274,224	$0.63	$0.63	$0.00	0.02%	64,837,737	$40,581,940
10/30/2020	$0.61	$0.00	-2.41%	7,016,745	$0.61	$0.61	$0.00	0.02%	64,837,737	$39,615,857
11/2/2020	$0.58	$0.00	-4.97%	5,958,857	$0.58	$0.58	$0.00	0.02%	64,837,737	$37,696,660
11/3/2020	$0.60	$0.00	3.76%	5,543,864	$0.60	$0.60	$0.00	0.02%	64,837,737	$39,142,542
11/4/2020	$0.59	$0.00	-1.49%	3,906,270	$0.59	$0.60	$0.00	0.12%	64,837,737	$38,565,486
11/5/2020	$0.62	$0.00	4.50%	4,565,766	$0.62	$0.62	$0.00	0.02%	64,837,737	$40,342,040
11/6/2020	$0.62	$0.00	-0.19%	2,747,883	$0.62	$0.62	$0.00	0.02%	64,837,737	$40,264,235
11/9/2020	$0.92	$0.00	38.80%	28,970,074	$0.92	$0.92	$0.00	0.01%	64,837,737	$59,352,464
11/10/2020	$0.93	$0.00	1.83%	13,290,917	$0.93	$0.93	$0.00	0.01%	64,837,737	$60,448,222
11/11/2020	$0.85	$0.00	-8.96%	7,140,918	$0.85	$0.85	$0.00	0.05%	64,837,737	$55,267,687
11/12/2020	$0.78	$0.00	-8.88%	7,776,342	$0.78	$0.78	$0.00	0.06%	64,837,737	$50,573,435
11/13/2020	$0.77	$0.00	-1.60%	9,654,863	$0.77	$0.77	$0.00	0.01%	64,837,737	$49,769,447
11/16/2020	$0.84	$0.00	9.12%	5,951,175	$0.84	$0.84	$0.00	0.17%	64,837,737	$54,522,053
11/17/2020	$0.90	$0.00	6.35%	7,490,649	$0.90	$0.90	$0.00	0.01%	64,837,737	$58,094,612
11/18/2020	$1.02	$0.00	12.96%	17,567,720	$1.02	$1.03	$0.01	0.98%	64,837,737	$66,134,492
11/19/2020	$1.04	$0.00	1.94%	3,421,589	$1.04	$1.05	$0.01	0.96%	64,837,737	$67,431,246
11/20/2020	$1.14	$0.00	9.18%	4,696,181	$1.13	$1.14	$0.01	0.88%	64,837,737	$73,915,020
11/23/2020	$1.39	$0.00	19.83%	9,111,212	$1.38	$1.39	$0.01	0.72%	64,837,737	$90,124,454
11/24/2020	$1.54	$0.00	10.25%	13,611,046	$1.53	$1.54	$0.01	0.65%	64,837,737	$99,850,115
11/25/2020	$1.60	$0.00	3.82%	4,729,289	$1.59	$1.60	$0.01	0.63%	64,837,737	$103,740,379
11/27/2020	$1.59	$0.00	-0.63%	2,721,876	$1.58	$1.59	$0.01	0.63%	64,837,737	$103,092,002
11/30/2020	$1.52	$0.00	-4.50%	4,403,668	$1.55	$1.56	$0.01	0.64%	64,947,502	$98,720,203
12/1/2020	$1.68	$0.00	10.01%	5,075,586	$1.66	$1.67	$0.01	0.60%	64,947,502	$109,111,803
12/2/2020	$1.58	$0.00	-6.14%	4,214,608	$1.57	$1.58	$0.01	0.63%	64,947,502	$102,617,053
12/3/2020	$1.17	$0.00	-30.04%	20,433,942	$1.16	$1.17	$0.01	0.86%	64,947,502	$75,988,577
12/4/2020	$1.20	$0.00	2.53%	3,615,920	$1.18	$1.19	$0.01	0.84%	64,947,502	$77,937,002
12/7/2020	$1.10	$0.00	-8.70%	5,499,955	$1.08	$1.09	$0.01	0.92%	64,947,502	$71,442,252
12/8/2020	$1.13	$0.00	2.69%	3,064,172	$1.12	$1.13	$0.01	0.89%	64,947,502	$73,390,677
12/9/2020	$1.16	$0.00	2.62%	4,521,615	$1.15	$1.16	$0.01	0.87%	64,947,502	$75,339,102
12/10/2020	$1.12	$0.00	-3.51%	3,181,706	$1.11	$1.12	$0.01	0.90%	64,947,502	$72,741,202
12/11/2020	$1.07	$0.00	-4.57%	3,555,996	$1.06	$1.07	$0.01	0.94%	64,947,502	$69,493,827
12/14/2020	$1.04	$0.00	-2.84%	3,514,974	$1.04	$1.05	$0.01	0.96%	64,947,502	$67,545,402
12/15/2020	$1.05	$0.00	0.96%	3,373,720	$1.04	$1.05	$0.01	0.96%	64,947,502	$68,194,877
12/16/2020	$1.04	$0.00	-0.96%	3,038,066	$1.04	$1.05	$0.01	0.96%	64,947,502	$67,545,402
12/17/2020	$1.06	$0.00	1.90%	2,087,141	$1.05	$1.06	$0.01	0.95%	64,947,502	$68,844,352
12/18/2020	$1.16	$0.00	9.02%	6,399,207	$1.14	$1.15	$0.01	0.87%	64,947,502	$75,339,102
12/21/2020	$1.09	$0.00	-6.22%	2,259,820	$1.08	$1.09	$0.01	0.92%	64,947,502	$70,792,777
12/22/2020	$1.08	$0.00	-0.92%	2,589,982	$1.07	$1.08	$0.01	0.93%	64,947,502	$70,143,302
12/23/2020	$1.05	$0.00	-2.82%	1,579,261	$1.04	$1.05	$0.01	0.96%	64,947,502	$68,194,877
12/24/2020	$1.04	$0.00	-0.96%	1,222,832	$1.04	$1.05	$0.01	0.96%	64,947,502	$67,545,402
12/28/2020	$1.00	$0.00	-3.92%	2,850,054	$1.00	$1.01	$0.01	1.00%	64,947,502	$64,947,502
12/29/2020	$0.91	$0.00	-9.37%	7,277,164	$0.91	$0.91	$0.00	0.01%	64,947,502	$59,141,195
12/30/2020	$0.95	$0.00	3.79%	2,531,066	$0.94	$0.95	$0.00	0.08%	64,947,502	$61,427,347
12/31/2020	$0.91	$0.00	-3.86%	1,959,384	$0.92	$0.92	$0.00	0.16%	64,947,502	$59,102,227

Exhibit-3d

EXPR Market Efficiency Statistics

January 28, 2020 through January 27, 2021

Date	Closing Price [a]	Dividend [b]	Log Return [b]	Volume [c]	Closing Bid [d]	Closing Ask [e]	Closing Bid/Ask Spread	Average Bid/Ask Spread %	Outstanding Shares [f]	Market Capitalization [g]
1/4/2021	$0.93	$0.00	2.67%	3,238,164	$0.94	$0.94	$0.00	0.01%	64,947,502	$60,699,935
1/5/2021	$0.96	$0.00	2.98%	2,300,439	$0.97	$0.97	$0.00	0.24%	64,947,502	$62,537,950
1/6/2021	$1.00	$0.00	3.78%	2,407,674	$1.00	$1.01	$0.01	1.00%	64,947,502	$64,947,502
1/7/2021	$1.02	$0.00	1.98%	2,548,946	$1.02	$1.03	$0.01	0.98%	64,947,502	$66,246,452
1/8/2021	$1.04	$0.00	1.94%	2,587,059	$1.03	$1.04	$0.01	0.97%	64,947,502	$67,545,402
1/11/2021	$1.00	$0.00	-4.20%	3,595,967	$1.00	$1.00	$0.00	0.01%	64,947,502	$64,765,649
1/12/2021	$1.05	$0.00	5.16%	3,438,177	$1.04	$1.05	$0.01	0.96%	64,947,502	$68,194,877
1/13/2021	$1.03	$0.00	-1.92%	2,056,567	$1.03	$1.04	$0.01	0.97%	64,947,502	$66,895,927
1/14/2021	$1.28	$0.00	21.73%	50,952,900	$1.27	$1.28	$0.01	0.78%	64,947,502	$83,132,803
1/15/2021	$1.26	$0.00	-1.57%	8,498,349	$1.25	$1.26	$0.01	0.80%	64,947,502	$81,833,853
1/19/2021	$1.21	$0.00	-4.05%	3,768,030	$1.20	$1.21	$0.01	0.83%	64,947,502	$78,586,477
1/20/2021	$1.16	$0.00	-4.22%	3,213,601	$1.16	$1.17	$0.01	0.86%	64,947,502	$75,339,102
1/21/2021	$1.17	$0.00	0.86%	5,279,111	$1.16	$1.17	$0.01	0.86%	64,947,502	$75,988,577
1/22/2021	$1.79	$0.00	42.52%	77,272,988	$1.78	$1.79	$0.01	0.56%	64,947,502	$116,256,029
1/25/2021	$4.15	$0.00	84.09%	358,630,191	$4.15	$4.16	$0.01	0.24%	64,947,502	$269,532,133
1/26/2021	$3.04	$0.00	-31.13%	73,344,309	$3.03	$3.04	$0.01	0.33%	64,947,502	$197,440,406
1/27/2021	$9.55	$0.00	114.47%	287,577,238	$9.55	$9.64	$0.09	0.94%	64,947,502	$620,248,644
Average	$1.68	$0.00	0.27%	6,415,080	$1.68	$1.69	$0.01	0.52%	64,447,357	$108.2 million
Median	$1.38	$0.00	-1.40%	2,068,120	$1.37	$1.38	$0.01	0.55%	64,459,170	$89.0 million
High	$9.55	$0.00	114.47%	358,630,191	$9.55	$9.64	$0.09	1.19%	64,947,502	$620.2 million
Low	$0.58	$0.00	-31.13%	451,461	$0.58	$0.58	$0.00	0.00%	63,907,212	$37.7 million

Source: CRSP & SEC Filings.

Exhibit-3e

GME Market Efficiency Statistics

January 28, 2020 through January 27, 2021

Date	Closing Price	Dividend	Log Return	Volume	Closing Bid	Closing Ask	Closing Bid/Ask Spread	Average Bid/Ask Spread %	Outstanding Shares	Market Capitalization
	[a]	[b]	[b]	[c]	[d]	[e]			[f]	[g]
1/28/2020	$4.21	$0.00	-1.65%	2,144,936	$4.21	$4.22	$0.01	0.24%	65,922,283	$277,532,811
1/29/2020	$4.13	$0.00	-1.92%	1,552,557	$4.13	$4.14	$0.01	0.24%	65,922,283	$272,259,029
1/30/2020	$3.93	$0.00	-4.96%	3,006,733	$3.93	$3.94	$0.01	0.25%	65,922,283	$259,074,572
1/31/2020	$3.84	$0.00	-2.32%	2,891,764	$3.84	$3.85	$0.01	0.26%	65,922,283	$253,141,567
2/3/2020	$3.95	$0.00	2.82%	2,026,199	$3.95	$3.96	$0.01	0.25%	65,922,283	$260,393,018
2/4/2020	$4.07	$0.00	2.99%	3,563,061	$4.08	$4.09	$0.01	0.24%	65,922,283	$268,303,692
2/5/2020	$4.18	$0.00	2.67%	2,641,722	$4.18	$4.19	$0.01	0.24%	65,922,283	$275,555,143
2/6/2020	$4.14	$0.00	-0.96%	1,510,303	$4.14	$4.15	$0.01	0.24%	65,922,283	$272,918,252
2/7/2020	$3.81	$0.00	-8.31%	2,742,281	$3.81	$3.82	$0.01	0.26%	65,922,283	$251,163,898
2/10/2020	$3.94	$0.00	3.36%	2,777,042	$3.94	$3.95	$0.01	0.25%	65,922,283	$259,733,795
2/11/2020	$4.02	$0.00	2.01%	3,415,023	$4.02	$4.03	$0.01	0.25%	65,922,283	$265,007,578
2/12/2020	$4.19	$0.00	4.14%	4,820,604	$4.19	$4.20	$0.01	0.24%	65,922,283	$276,214,366
2/13/2020	$4.11	$0.00	-1.93%	2,081,693	$4.11	$4.12	$0.01	0.24%	65,922,283	$270,940,583
2/14/2020	$4.02	$0.00	-2.21%	1,582,660	$4.02	$4.03	$0.01	0.25%	65,922,283	$265,007,578
2/18/2020	$4.06	$0.00	0.99%	1,467,612	$4.05	$4.06	$0.01	0.25%	65,922,283	$267,644,469
2/19/2020	$4.15	$0.00	2.19%	2,593,092	$4.15	$4.16	$0.01	0.24%	65,922,283	$273,577,474
2/20/2020	$4.14	$0.00	-0.24%	1,562,341	$4.14	$4.15	$0.01	0.24%	65,922,283	$272,918,252
2/21/2020	$4.04	$0.00	-2.45%	1,695,693	$4.04	$4.05	$0.01	0.25%	65,922,283	$266,326,023
2/24/2020	$3.70	$0.00	-8.79%	3,566,289	$3.70	$3.71	$0.01	0.27%	65,922,283	$243,912,447
2/25/2020	$3.56	$0.00	-3.86%	4,447,956	$3.55	$3.56	$0.01	0.28%	65,922,283	$234,683,327
2/26/2020	$3.39	$0.00	-4.89%	4,725,372	$3.39	$3.40	$0.01	0.29%	65,922,283	$223,476,539
2/27/2020	$3.47	$0.00	2.33%	3,879,480	$3.47	$3.48	$0.01	0.29%	65,922,283	$228,750,322
2/28/2020	$3.60	$0.00	3.68%	4,692,197	$3.59	$3.60	$0.01	0.28%	65,922,283	$237,320,219
3/2/2020	$3.83	$0.00	6.19%	3,208,428	$3.84	$3.85	$0.01	0.26%	65,922,283	$252,482,344
3/3/2020	$3.63	$0.00	-5.36%	4,282,456	$3.63	$3.64	$0.01	0.28%	65,922,283	$239,297,887
3/4/2020	$3.77	$0.00	3.78%	4,257,629	$3.76	$3.77	$0.01	0.27%	65,922,283	$248,527,007
3/5/2020	$3.96	$0.00	4.92%	3,599,627	$3.95	$3.96	$0.01	0.25%	65,922,283	$261,052,241
3/6/2020	$3.92	$0.00	-1.02%	2,096,803	$3.91	$3.92	$0.01	0.26%	65,922,283	$258,415,349
3/9/2020	$3.70	$0.00	-5.78%	2,732,022	$3.70	$3.71	$0.01	0.27%	65,922,283	$243,912,447
3/10/2020	$4.23	$0.00	13.39%	4,863,169	$4.22	$4.23	$0.01	0.24%	65,922,283	$278,851,257
3/11/2020	$4.14	$0.00	-2.15%	4,414,196	$4.13	$4.14	$0.01	0.24%	65,922,283	$272,918,252
3/12/2020	$3.98	$0.00	-3.94%	5,123,363	$3.97	$3.98	$0.01	0.25%	65,922,283	$262,370,686
3/13/2020	$4.59	$0.00	14.26%	5,787,211	$4.58	$4.59	$0.01	0.22%	65,922,283	$302,583,279
3/16/2020	$4.37	$0.00	-4.91%	4,866,696	$4.38	$4.39	$0.01	0.23%	65,922,283	$288,080,377
3/17/2020	$4.23	$0.00	-3.26%	3,562,210	$4.22	$4.23	$0.01	0.24%	65,922,283	$278,851,257
3/18/2020	$3.77	$0.00	-11.51%	3,651,709	$3.77	$3.78	$0.01	0.26%	65,922,283	$248,527,007
3/19/2020	$4.19	$0.00	10.56%	5,039,539	$4.17	$4.19	$0.02	0.48%	65,922,283	$276,214,366
3/20/2020	$3.76	$0.00	-10.83%	7,722,194	$3.75	$3.76	$0.01	0.27%	64,457,992	$242,362,050
3/23/2020	$3.81	$0.00	1.32%	6,009,784	$3.80	$3.81	$0.01	0.26%	64,457,992	$245,584,950
3/24/2020	$4.16	$0.00	8.79%	6,805,659	$4.19	$4.20	$0.01	0.24%	64,457,992	$268,145,247
3/25/2020	$4.17	$0.00	0.24%	3,592,059	$4.20	$4.21	$0.01	0.24%	64,457,992	$268,789,827
3/26/2020	$4.41	$0.00	5.60%	6,210,979	$4.40	$4.41	$0.01	0.23%	64,457,992	$284,259,745
3/27/2020	$4.22	$0.00	-4.40%	7,024,763	$4.21	$4.22	$0.01	0.24%	64,457,992	$272,012,726
3/30/2020	$3.65	$0.00	-14.51%	3,350,571	$3.65	$3.66	$0.01	0.27%	64,457,992	$235,271,671
3/31/2020	$3.50	$0.00	-4.20%	2,304,132	$3.52	$3.53	$0.01	0.28%	64,457,992	$225,602,972
4/1/2020	$3.25	$0.00	-7.41%	4,568,695	$3.25	$3.26	$0.01	0.31%	64,457,992	$209,488,474
4/2/2020	$2.85	$0.00	-13.13%	4,064,339	$2.85	$2.86	$0.01	0.35%	64,457,992	$183,705,277
4/3/2020	$2.80	$0.00	-1.77%	3,830,761	$2.79	$2.80	$0.01	0.36%	64,457,992	$180,482,378
4/6/2020	$3.09	$0.00	9.86%	3,340,544	$3.08	$3.09	$0.01	0.32%	64,457,992	$199,175,195
4/7/2020	$3.27	$0.00	5.66%	2,836,859	$3.27	$3.28	$0.01	0.31%	64,457,992	$210,777,634
4/8/2020	$3.41	$0.00	4.19%	2,884,528	$3.40	$3.41	$0.01	0.29%	64,457,992	$219,801,753
4/9/2020	$3.89	$0.00	13.17%	5,908,916	$3.89	$3.90	$0.01	0.26%	64,457,992	$250,741,589
4/13/2020	$4.74	$0.00	19.76%	6,844,501	$4.75	$4.76	$0.01	0.21%	64,457,992	$305,530,882
4/14/2020	$5.95	$0.00	22.74%	13,506,632	$5.92	$5.93	$0.01	0.17%	64,457,992	$383,525,052
4/15/2020	$5.27	$0.00	-12.14%	7,499,854	$5.26	$5.27	$0.01	0.19%	64,457,992	$339,693,618
4/16/2020	$5.03	$0.00	-4.66%	3,371,921	$5.01	$5.02	$0.01	0.20%	64,457,992	$324,223,700
4/17/2020	$4.88	$0.00	-3.03%	5,653,188	$4.86	$4.87	$0.01	0.21%	64,457,992	$314,555,001
4/20/2020	$5.61	$0.00	13.94%	6,085,011	$5.57	$5.58	$0.01	0.18%	64,457,992	$361,609,335
4/21/2020	$4.78	$0.00	-16.01%	4,142,050	$4.78	$4.79	$0.01	0.21%	64,457,992	$308,109,202

Exhibit-3e

GME Market Efficiency Statistics

January 28, 2020 through January 27, 2021

Date	Closing Price [a]	Dividend [b]	Log Return [b]	Volume [c]	Closing Bid [d]	Closing Ask [e]	Closing Bid/Ask Spread	Average Bid/Ask Spread %	Outstanding Shares [f]	Market Capitalization [g]
4/22/2020	$4.89	$0.00	2.28%	2,678,133	$4.88	$4.89	$0.01	0.20%	64,457,992	$315,199,581
4/23/2020	$4.70	$0.00	-3.96%	2,265,853	$4.68	$4.69	$0.01	0.21%	64,457,992	$302,952,562
4/24/2020	$4.77	$0.00	1.48%	2,236,544	$4.77	$4.78	$0.01	0.21%	64,457,992	$307,464,622
4/27/2020	$5.82	$0.00	19.90%	7,275,138	$5.81	$5.82	$0.01	0.17%	64,457,992	$375,145,513
4/28/2020	$5.64	$0.00	-3.14%	5,200,189	$5.61	$5.62	$0.01	0.18%	64,457,992	$363,543,075
4/29/2020	$6.04	$0.00	6.85%	3,370,045	$5.99	$6.00	$0.01	0.17%	64,457,992	$389,326,272
4/30/2020	$5.73	$0.00	-5.27%	2,173,530	$5.74	$5.75	$0.01	0.17%	64,457,992	$369,344,294
5/1/2020	$6.05	$0.00	5.43%	4,005,598	$6.04	$6.05	$0.01	0.17%	64,457,992	$389,970,852
5/4/2020	$5.48	$0.00	-9.90%	4,068,105	$5.45	$5.46	$0.01	0.18%	64,457,992	$353,229,796
5/5/2020	$5.39	$0.00	-1.66%	2,105,919	$5.38	$5.39	$0.01	0.19%	64,457,992	$347,428,577
5/6/2020	$4.93	$0.00	-8.92%	3,369,640	$4.93	$4.94	$0.01	0.20%	64,457,992	$317,777,901
5/7/2020	$4.87	$0.00	-1.22%	2,501,195	$4.85	$4.86	$0.01	0.21%	64,457,992	$313,910,421
5/8/2020	$4.98	$0.00	2.23%	2,353,661	$4.95	$4.96	$0.01	0.20%	64,457,992	$321,000,800
5/11/2020	$4.76	$0.00	-4.52%	1,699,158	$4.76	$4.77	$0.01	0.21%	64,457,992	$306,820,042
5/12/2020	$4.54	$0.00	-4.73%	2,639,157	$4.53	$4.54	$0.01	0.22%	64,457,992	$292,639,284
5/13/2020	$4.21	$0.00	-7.55%	2,882,877	$4.20	$4.21	$0.01	0.24%	64,457,992	$271,368,146
5/14/2020	$4.13	$0.00	-1.92%	2,004,868	$4.13	$4.14	$0.01	0.24%	64,457,992	$266,211,507
5/15/2020	$4.22	$0.00	2.16%	1,940,704	$4.22	$4.23	$0.01	0.24%	64,457,992	$272,012,726
5/18/2020	$4.58	$0.00	8.19%	2,371,694	$4.57	$4.58	$0.01	0.22%	64,457,992	$295,217,603
5/19/2020	$4.44	$0.00	-3.10%	1,840,732	$4.44	$4.45	$0.01	0.22%	64,457,992	$286,193,484
5/20/2020	$4.43	$0.00	-0.23%	2,543,609	$4.42	$4.43	$0.01	0.23%	64,457,992	$285,548,905
5/21/2020	$4.44	$0.00	0.23%	1,971,906	$4.44	$4.45	$0.01	0.22%	64,457,992	$286,193,484
5/22/2020	$4.18	$0.00	-6.03%	2,379,851	$4.18	$4.19	$0.01	0.24%	64,457,992	$269,434,407
5/26/2020	$4.42	$0.00	5.58%	3,545,926	$4.41	$4.42	$0.01	0.23%	64,457,992	$284,904,325
5/27/2020	$4.69	$0.00	5.93%	3,146,603	$4.68	$4.69	$0.01	0.21%	64,457,992	$302,307,982
5/28/2020	$4.33	$0.00	-7.99%	2,184,367	$4.33	$4.34	$0.01	0.23%	64,457,992	$279,103,105
5/29/2020	$4.06	$0.00	-6.44%	3,973,540	$4.06	$4.07	$0.01	0.25%	64,457,992	$261,699,448
6/1/2020	$4.13	$0.00	1.71%	2,618,424	$4.13	$4.14	$0.01	0.24%	64,457,992	$266,211,507
6/2/2020	$4.18	$0.00	1.20%	2,369,780	$4.18	$4.19	$0.01	0.24%	64,758,910	$270,692,244
6/3/2020	$4.44	$0.00	6.03%	3,037,424	$4.44	$4.45	$0.01	0.22%	64,758,910	$287,529,560
6/4/2020	$4.47	$0.00	0.67%	3,514,299	$4.46	$4.47	$0.01	0.22%	64,758,910	$289,472,328
6/5/2020	$4.14	$0.00	-7.67%	6,274,428	$4.14	$4.15	$0.01	0.24%	64,758,910	$268,101,887
6/8/2020	$5.01	$0.00	19.07%	10,133,663	$4.98	$4.99	$0.01	0.20%	64,758,910	$324,442,139
6/9/2020	$4.96	$0.00	-1.00%	8,073,448	$4.94	$4.96	$0.02	0.40%	64,758,910	$321,204,194
6/10/2020	$5.07	$0.00	2.19%	10,606,372	$5.06	$5.07	$0.01	0.20%	64,758,910	$328,327,674
6/11/2020	$4.37	$0.00	-14.86%	6,235,993	$4.36	$4.37	$0.01	0.23%	64,758,910	$282,996,437
6/12/2020	$4.72	$0.00	7.70%	4,378,192	$4.71	$4.72	$0.01	0.21%	64,758,910	$305,662,055
6/15/2020	$4.69	$0.00	-0.64%	3,910,385	$4.69	$4.70	$0.01	0.21%	64,758,910	$303,719,288
6/16/2020	$4.64	$0.00	-1.07%	3,123,535	$4.64	$4.65	$0.01	0.22%	64,758,910	$300,481,342
6/17/2020	$4.76	$0.00	2.55%	3,593,466	$4.75	$4.76	$0.01	0.21%	64,758,910	$308,252,412
6/18/2020	$4.95	$0.00	3.91%	3,423,827	$4.91	$4.92	$0.01	0.20%	64,758,910	$320,556,605
6/19/2020	$4.88	$0.00	-1.42%	7,365,867	$4.80	$4.81	$0.01	0.21%	64,758,910	$316,023,481
6/22/2020	$4.87	$0.00	-0.21%	3,178,966	$4.87	$4.88	$0.01	0.21%	64,758,910	$315,375,892
6/23/2020	$4.83	$0.00	-0.82%	3,205,372	$4.84	$4.85	$0.01	0.21%	64,758,910	$312,785,535
6/24/2020	$4.41	$0.00	-9.10%	2,976,209	$4.41	$4.42	$0.01	0.23%	64,758,910	$285,586,793
6/25/2020	$4.46	$0.00	1.13%	2,450,936	$4.46	$4.47	$0.01	0.22%	64,758,910	$288,824,739
6/26/2020	$4.35	$0.00	-2.50%	3,801,155	$4.37	$4.38	$0.01	0.23%	64,758,910	$281,701,259
6/29/2020	$4.38	$0.00	0.69%	2,131,330	$4.37	$4.38	$0.01	0.23%	64,758,910	$283,644,026
6/30/2020	$4.34	$0.00	-0.92%	3,889,029	$4.31	$4.33	$0.02	0.46%	64,758,910	$281,053,669
7/1/2020	$4.44	$0.00	2.28%	2,304,101	$4.43	$4.44	$0.01	0.23%	64,758,910	$287,529,560
7/2/2020	$4.29	$0.00	-3.44%	1,887,751	$4.29	$4.30	$0.01	0.23%	64,758,910	$277,815,724
7/6/2020	$4.24	$0.00	-1.17%	2,140,879	$4.24	$4.25	$0.01	0.24%	64,758,910	$274,577,778
7/7/2020	$4.09	$0.00	-3.60%	2,456,970	$4.08	$4.09	$0.01	0.24%	64,758,910	$264,863,942
7/8/2020	$4.26	$0.00	4.07%	2,052,829	$4.26	$4.27	$0.01	0.23%	64,758,910	$275,872,957
7/9/2020	$4.21	$0.00	-1.18%	1,992,621	$4.21	$4.22	$0.01	0.24%	64,758,910	$272,635,011
7/10/2020	$4.34	$0.00	3.04%	1,410,828	$4.34	$4.35	$0.01	0.23%	64,758,910	$281,053,669
7/13/2020	$4.26	$0.00	-1.86%	4,216,265	$4.26	$4.27	$0.01	0.23%	64,758,910	$275,872,957
7/14/2020	$4.08	$0.00	-4.32%	2,261,589	$4.08	$4.09	$0.01	0.24%	64,758,910	$264,216,353
7/15/2020	$4.19	$0.00	2.66%	1,474,126	$4.19	$4.20	$0.01	0.24%	64,758,910	$271,339,833

Exhibit-3e

GME Market Efficiency Statistics

January 28, 2020 through January 27, 2021

Date	Closing Price [a]	Dividend [b]	Log Return [b]	Volume [c]	Closing Bid [d]	Closing Ask [e]	Closing Bid/Ask Spread	Average Bid/Ask Spread %	Outstanding Shares [f]	Market Capitalization [g]
7/16/2020	$4.17	$0.00	-0.48%	1,330,461	$4.17	$4.18	$0.01	0.24%	64,758,910	$270,044,655
7/17/2020	$3.96	$0.00	-5.17%	3,066,549	$3.96	$3.97	$0.01	0.25%	64,758,910	$256,445,284
7/20/2020	$3.85	$0.00	-2.82%	3,401,088	$3.85	$3.86	$0.01	0.26%	64,758,910	$249,321,804
7/21/2020	$4.01	$0.00	4.07%	3,341,012	$4.01	$4.02	$0.01	0.25%	64,758,910	$259,683,229
7/22/2020	$4.11	$0.00	2.46%	2,523,547	$4.11	$4.12	$0.01	0.24%	64,758,910	$266,159,120
7/23/2020	$4.11	$0.00	0.00%	3,237,550	$4.11	$4.12	$0.01	0.24%	64,758,910	$266,159,120
7/24/2020	$4.03	$0.00	-1.97%	2,216,295	$4.03	$4.04	$0.01	0.25%	64,758,910	$260,978,407
7/27/2020	$4.01	$0.00	-0.50%	2,472,696	$4.01	$4.02	$0.01	0.25%	64,758,910	$259,683,229
7/28/2020	$3.94	$0.00	-1.76%	4,555,392	$3.94	$3.95	$0.01	0.25%	64,758,910	$255,150,105
7/29/2020	$4.06	$0.00	3.00%	2,879,626	$4.06	$4.07	$0.01	0.25%	64,758,910	$262,921,175
7/30/2020	$4.10	$0.00	0.98%	2,398,485	$4.10	$4.11	$0.01	0.24%	64,758,910	$265,511,531
7/31/2020	$4.01	$0.00	-2.22%	1,879,553	$4.01	$4.02	$0.01	0.25%	64,758,910	$259,683,229
8/3/2020	$4.15	$0.00	3.43%	2,518,010	$4.15	$4.16	$0.01	0.24%	64,758,910	$268,749,477
8/4/2020	$4.43	$0.00	6.53%	10,361,363	$4.43	$4.44	$0.01	0.23%	64,758,910	$286,881,971
8/5/2020	$4.63	$0.00	4.42%	4,925,697	$4.62	$4.63	$0.01	0.22%	64,758,910	$299,833,753
8/6/2020	$4.43	$0.00	-4.42%	1,901,224	$4.43	$4.44	$0.01	0.23%	64,758,910	$286,881,971
8/7/2020	$4.16	$0.00	-6.29%	3,341,099	$4.16	$4.17	$0.01	0.24%	64,758,910	$269,397,066
8/10/2020	$4.33	$0.00	4.01%	4,561,772	$4.33	$4.34	$0.01	0.23%	64,758,910	$280,406,080
8/11/2020	$4.35	$0.00	0.46%	3,139,105	$4.35	$4.36	$0.01	0.23%	64,758,910	$281,701,259
8/12/2020	$4.52	$0.00	3.83%	3,057,594	$4.52	$4.53	$0.01	0.22%	64,758,910	$292,710,273
8/13/2020	$4.64	$0.00	2.62%	2,128,313	$4.64	$4.65	$0.01	0.22%	64,758,910	$300,481,342
8/14/2020	$4.75	$0.00	2.34%	3,474,692	$4.74	$4.75	$0.01	0.21%	64,758,910	$307,604,823
8/17/2020	$4.63	$0.00	-2.56%	2,370,970	$4.63	$4.64	$0.01	0.22%	64,758,910	$299,833,753
8/18/2020	$4.81	$0.00	3.81%	3,834,840	$4.81	$4.82	$0.01	0.21%	64,758,910	$311,490,357
8/19/2020	$4.72	$0.00	-1.89%	2,612,583	$4.72	$4.73	$0.01	0.21%	64,758,910	$305,662,055
8/20/2020	$4.61	$0.00	-2.36%	2,441,184	$4.61	$4.62	$0.01	0.22%	64,758,910	$298,538,575
8/21/2020	$5.03	$0.00	8.72%	10,642,591	$5.03	$5.04	$0.01	0.20%	64,758,910	$325,737,317
8/24/2020	$4.87	$0.00	-3.23%	4,585,366	$4.87	$4.88	$0.01	0.21%	64,758,910	$315,375,892
8/25/2020	$4.98	$0.00	2.23%	2,998,678	$4.98	$4.99	$0.01	0.20%	64,758,910	$322,499,372
8/26/2020	$5.11	$0.00	2.58%	2,779,664	$5.11	$5.12	$0.01	0.20%	64,758,910	$330,918,030
8/27/2020	$5.25	$0.00	2.70%	3,384,658	$5.25	$5.26	$0.01	0.19%	64,758,910	$339,984,278
8/28/2020	$5.39	$0.00	2.63%	4,236,926	$5.38	$5.39	$0.01	0.19%	64,758,910	$349,050,525
8/31/2020	$6.68	$0.00	21.46%	37,975,999	$6.68	$6.69	$0.01	0.15%	64,758,910	$432,589,519
9/1/2020	$7.65	$0.00	13.56%	23,211,046	$7.65	$7.66	$0.01	0.13%	64,758,910	$495,405,662
9/2/2020	$7.71	$0.00	0.78%	13,011,113	$7.70	$7.71	$0.01	0.13%	65,161,610	$502,396,013
9/3/2020	$7.82	$0.00	1.42%	14,344,502	$7.81	$7.82	$0.01	0.13%	65,161,610	$509,563,790
9/4/2020	$7.65	$0.00	-2.20%	7,661,994	$7.65	$7.66	$0.01	0.13%	65,161,610	$498,486,317
9/8/2020	$7.70	$0.00	0.65%	9,816,620	$7.69	$7.70	$0.01	0.13%	65,161,610	$501,744,397
9/9/2020	$7.35	$0.00	-4.65%	9,068,082	$7.35	$7.36	$0.01	0.14%	65,161,610	$478,937,834
9/10/2020	$6.23	$0.00	-16.53%	15,558,278	$6.22	$6.23	$0.01	0.16%	65,161,610	$405,956,830
9/11/2020	$6.09	$0.00	-2.27%	6,061,190	$6.09	$6.10	$0.01	0.16%	65,161,610	$396,834,205
9/14/2020	$6.91	$0.00	12.63%	10,118,972	$6.91	$6.92	$0.01	0.14%	65,161,610	$450,266,725
9/15/2020	$7.09	$0.00	2.57%	5,743,489	$7.08	$7.09	$0.01	0.14%	65,161,610	$461,995,815
9/16/2020	$8.68	$0.00	20.23%	19,346,508	$8.67	$8.68	$0.01	0.12%	65,161,610	$565,602,775
9/17/2020	$9.20	$0.00	5.82%	17,026,720	$9.19	$9.20	$0.01	0.11%	65,161,610	$599,486,812
9/18/2020	$9.47	$0.00	2.89%	17,407,513	$9.44	$9.45	$0.01	0.11%	65,161,610	$617,080,447
9/21/2020	$8.75	$0.00	-7.91%	7,639,806	$8.74	$8.75	$0.01	0.11%	65,161,610	$570,164,088
9/22/2020	$10.56	$0.00	18.80%	34,752,484	$10.55	$10.56	$0.01	0.09%	65,161,610	$688,106,602
9/23/2020	$10.04	$0.00	-5.05%	10,651,152	$10.04	$10.05	$0.01	0.10%	65,161,610	$654,222,564
9/24/2020	$9.14	$0.00	-9.39%	7,938,838	$9.13	$9.14	$0.01	0.11%	65,161,610	$595,577,115
9/25/2020	$10.02	$0.00	9.19%	7,515,157	$10.01	$10.02	$0.01	0.10%	65,161,610	$652,919,332
9/28/2020	$10.09	$0.00	0.70%	6,764,323	$10.09	$10.10	$0.01	0.10%	65,161,610	$657,480,645
9/29/2020	$10.35	$0.00	2.54%	5,244,339	$10.34	$10.35	$0.01	0.10%	65,161,610	$674,422,664
9/30/2020	$10.20	$0.00	-1.46%	6,079,033	$10.20	$10.21	$0.01	0.10%	65,161,610	$664,648,422
10/1/2020	$9.77	$0.00	-4.31%	4,554,055	$9.76	$9.77	$0.01	0.10%	65,161,610	$636,628,930
10/2/2020	$9.39	$0.00	-3.97%	4,340,484	$9.38	$9.39	$0.01	0.11%	65,161,610	$611,867,518
10/5/2020	$9.46	$0.00	0.74%	2,804,969	$9.45	$9.46	$0.01	0.11%	65,161,610	$616,428,831
10/6/2020	$9.13	$0.00	-3.55%	4,535,421	$9.13	$9.14	$0.01	0.11%	65,161,610	$594,925,499
10/7/2020	$9.36	$0.00	2.49%	3,308,644	$9.35	$9.36	$0.01	0.11%	65,161,610	$609,912,670

Exhibit-3e

GME Market Efficiency Statistics

January 28, 2020 through January 27, 2021

Date	Closing Price [a]	Dividend [b]	Log Return [b]	Volume [c]	Closing Bid [d]	Closing Ask [e]	Closing Bid/Ask Spread	Average Bid/Ask Spread %	Outstanding Shares [f]	Market Capitalization [g]
10/8/2020	$13.49	$0.00	36.55%	76,453,557	$13.50	$13.51	$0.01	0.07%	65,161,610	$879,030,119
10/9/2020	$12.02	$0.00	-11.54%	77,152,780	$12.02	$12.03	$0.01	0.08%	65,161,610	$783,242,552
10/12/2020	$11.80	$0.00	-1.85%	23,655,701	$11.79	$11.80	$0.01	0.08%	65,161,610	$768,906,998
10/13/2020	$11.88	$0.00	0.68%	10,179,708	$11.87	$11.88	$0.01	0.08%	65,161,610	$774,119,927
10/14/2020	$12.25	$0.00	3.07%	10,776,762	$12.24	$12.25	$0.01	0.08%	65,161,610	$798,229,723
10/15/2020	$13.83	$0.00	12.13%	39,894,822	$13.82	$13.83	$0.01	0.07%	65,161,610	$901,185,066
10/16/2020	$13.31	$0.00	-3.83%	11,651,578	$13.30	$13.31	$0.01	0.08%	65,161,610	$867,301,029
10/19/2020	$13.91	$0.00	4.41%	13,169,073	$13.90	$13.91	$0.01	0.07%	65,161,610	$906,397,995
10/20/2020	$13.86	$0.00	-0.36%	6,603,951	$13.84	$13.86	$0.02	0.14%	65,161,610	$903,139,915
10/21/2020	$14.10	$0.00	1.72%	5,361,928	$14.09	$14.10	$0.01	0.07%	65,161,610	$918,778,701
10/22/2020	$14.91	$0.00	5.59%	16,212,232	$14.90	$14.91	$0.01	0.07%	65,161,610	$971,559,605
10/23/2020	$15.00	$0.00	0.60%	6,507,324	$15.02	$15.03	$0.01	0.07%	65,161,610	$977,424,150
10/26/2020	$13.45	$0.00	-10.91%	13,376,269	$13.49	$13.50	$0.01	0.07%	65,161,610	$876,423,655
10/27/2020	$12.69	$0.00	-5.82%	7,231,006	$12.69	$12.70	$0.01	0.08%	65,161,610	$826,900,831
10/28/2020	$11.82	$0.00	-7.10%	6,388,580	$11.82	$11.83	$0.01	0.08%	65,161,610	$770,210,230
10/29/2020	$11.73	$0.00	-0.76%	4,165,843	$11.73	$11.74	$0.01	0.09%	65,161,610	$764,345,685
10/30/2020	$10.47	$0.00	-11.36%	11,562,367	$10.46	$10.47	$0.01	0.10%	65,161,610	$682,242,057
11/2/2020	$10.75	$0.00	2.64%	5,227,011	$10.75	$10.76	$0.01	0.09%	65,161,610	$700,487,308
11/3/2020	$11.57	$0.00	7.35%	7,454,472	$11.56	$11.57	$0.01	0.09%	65,161,610	$753,919,828
11/4/2020	$10.91	$0.00	-5.87%	5,807,871	$10.90	$10.92	$0.02	0.18%	65,161,610	$710,913,165
11/5/2020	$11.45	$0.00	4.83%	4,705,245	$11.45	$11.46	$0.01	0.09%	65,161,610	$746,100,435
11/6/2020	$11.86	$0.00	3.52%	5,518,243	$11.86	$11.87	$0.01	0.08%	65,161,610	$772,816,695
11/9/2020	$11.49	$0.00	-3.17%	6,244,865	$11.49	$11.50	$0.01	0.09%	65,161,610	$748,706,899
11/10/2020	$11.10	$0.00	-3.45%	3,825,963	$11.11	$11.12	$0.01	0.09%	65,161,610	$723,293,871
11/11/2020	$11.75	$0.00	5.69%	4,882,569	$11.75	$11.76	$0.01	0.09%	65,161,610	$765,648,918
11/12/2020	$11.13	$0.00	-5.42%	4,355,892	$11.13	$11.14	$0.01	0.09%	65,161,610	$725,248,719
11/13/2020	$11.01	$0.00	-1.08%	3,546,171	$11.01	$11.02	$0.01	0.09%	65,161,610	$717,429,326
11/16/2020	$12.06	$0.00	9.11%	9,774,824	$12.06	$12.07	$0.01	0.08%	65,161,610	$785,849,017
11/17/2020	$11.63	$0.00	-3.63%	6,678,176	$11.63	$11.64	$0.01	0.09%	65,161,610	$757,829,524
11/18/2020	$11.57	$0.00	-0.52%	3,169,222	$11.58	$11.59	$0.01	0.09%	65,161,610	$753,919,828
11/19/2020	$12.46	$0.00	7.41%	11,787,613	$12.46	$12.47	$0.01	0.08%	65,161,610	$811,913,661
11/20/2020	$12.71	$0.00	1.99%	8,402,347	$12.71	$12.72	$0.01	0.08%	65,161,610	$828,204,063
11/23/2020	$13.90	$0.00	8.95%	9,607,973	$13.90	$13.91	$0.01	0.07%	65,161,610	$905,746,379
11/24/2020	$13.67	$0.00	-1.67%	7,186,710	$13.67	$13.68	$0.01	0.07%	65,161,610	$890,759,209
11/25/2020	$14.75	$0.00	7.60%	8,860,092	$14.74	$14.75	$0.01	0.07%	65,161,610	$961,133,748
11/27/2020	$16.08	$0.00	8.63%	12,504,197	$16.05	$16.06	$0.01	0.06%	65,161,610	$1,047,798,689
11/30/2020	$16.56	$0.00	2.94%	31,983,498	$16.56	$16.64	$0.08	0.48%	65,161,610	$1,079,076,262
12/1/2020	$15.80	$0.00	-4.70%	12,666,027	$15.80	$15.81	$0.01	0.06%	69,746,960	$1,102,001,968
12/2/2020	$16.58	$0.00	4.82%	7,883,380	$16.58	$16.59	$0.01	0.06%	69,746,960	$1,156,404,597
12/3/2020	$16.12	$0.00	-2.81%	6,294,965	$16.12	$16.13	$0.01	0.06%	69,746,960	$1,124,320,995
12/4/2020	$16.90	$0.00	4.73%	8,972,672	$16.90	$16.91	$0.01	0.06%	69,746,960	$1,178,723,624
12/7/2020	$16.35	$0.00	-3.31%	7,386,258	$16.32	$16.33	$0.01	0.06%	69,746,960	$1,140,362,796
12/8/2020	$16.94	$0.00	3.54%	16,120,163	$16.91	$16.92	$0.01	0.06%	69,746,960	$1,181,513,502
12/9/2020	$13.66	$0.00	-21.52%	24,357,944	$13.65	$13.66	$0.01	0.07%	69,746,960	$952,743,474
12/10/2020	$14.12	$0.00	3.31%	7,558,922	$14.12	$14.13	$0.01	0.07%	69,746,960	$984,827,075
12/11/2020	$13.31	$0.00	-5.91%	7,496,868	$13.31	$13.32	$0.01	0.08%	69,746,960	$928,332,038
12/14/2020	$12.72	$0.00	-4.53%	10,007,092	$12.71	$12.72	$0.01	0.08%	69,746,960	$887,181,331
12/15/2020	$13.85	$0.00	8.51%	8,192,856	$13.87	$13.88	$0.01	0.07%	69,746,960	$965,995,396
12/16/2020	$13.85	$0.00	0.00%	5,865,123	$13.85	$13.86	$0.01	0.07%	69,746,960	$965,995,396
12/17/2020	$14.83	$0.00	6.84%	8,194,902	$14.82	$14.83	$0.01	0.07%	69,746,960	$1,034,347,417
12/18/2020	$15.63	$0.00	5.25%	16,618,776	$15.62	$15.63	$0.01	0.06%	69,746,960	$1,090,144,985
12/21/2020	$15.53	$0.00	-0.64%	9,876,128	$15.52	$15.53	$0.01	0.06%	69,746,960	$1,083,170,289
12/22/2020	$19.46	$0.00	22.56%	30,687,718	$19.41	$19.46	$0.05	0.26%	69,746,960	$1,357,275,842
12/23/2020	$20.57	$0.00	5.55%	25,830,256	$20.57	$20.58	$0.01	0.05%	69,746,960	$1,434,694,967
12/24/2020	$20.15	$0.00	-2.06%	6,262,174	$20.15	$20.20	$0.05	0.25%	69,746,960	$1,405,401,244
12/28/2020	$20.99	$0.00	4.08%	8,965,858	$20.98	$20.99	$0.01	0.05%	69,746,960	$1,463,988,690
12/29/2020	$19.38	$0.00	-7.98%	9,241,441	$19.37	$19.38	$0.01	0.05%	69,746,960	$1,351,696,085
12/30/2020	$19.26	$0.00	-0.62%	5,934,391	$19.25	$19.26	$0.01	0.05%	69,746,960	$1,343,326,450
12/31/2020	$18.84	$0.00	-2.20%	6,922,652	$18.80	$18.81	$0.01	0.05%	69,746,960	$1,314,032,726

Exhibit-3e

GME Market Efficiency Statistics

January 28, 2020 through January 27, 2021

Date	Closing Price [a]	Dividend [b]	Log Return [b]	Volume [c]	Closing Bid [d]	Closing Ask [e]	Closing Bid/Ask Spread	Average Bid/Ask Spread %	Outstanding Shares [f]	Market Capitalization [g]
1/4/2021	$17.25	$0.00	-8.82%	10,022,474	$17.24	$17.25	$0.01	0.06%	69,746,960	$1,203,135,060
1/5/2021	$17.37	$0.00	0.69%	4,961,457	$17.37	$17.38	$0.01	0.06%	69,746,960	$1,211,504,695
1/6/2021	$18.36	$0.00	5.54%	6,056,248	$18.38	$18.39	$0.01	0.05%	69,746,960	$1,280,554,186
1/7/2021	$18.08	$0.00	-1.54%	6,129,276	$18.09	$18.12	$0.03	0.17%	69,746,960	$1,261,025,037
1/8/2021	$17.69	$0.00	-2.18%	6,481,960	$17.68	$17.69	$0.01	0.06%	69,746,960	$1,233,823,722
1/11/2021	$19.94	$0.00	11.97%	14,927,612	$19.92	$19.94	$0.02	0.10%	69,746,960	$1,390,754,382
1/12/2021	$19.95	$0.00	0.05%	7,060,665	$19.93	$19.94	$0.01	0.05%	69,746,960	$1,391,451,852
1/13/2021	$31.40	$0.00	45.36%	144,501,736	$31.38	$31.40	$0.02	0.06%	69,746,960	$2,190,054,544
1/14/2021	$39.91	$0.00	23.98%	93,717,410	$39.91	$39.92	$0.01	0.03%	69,746,960	$2,783,601,174
1/15/2021	$35.50	$0.00	-11.71%	46,866,358	$35.49	$35.50	$0.01	0.03%	69,746,960	$2,476,017,080
1/19/2021	$39.36	$0.00	10.32%	74,721,924	$39.51	$39.52	$0.01	0.03%	69,746,960	$2,745,240,346
1/20/2021	$39.12	$0.00	-0.61%	33,471,789	$39.12	$39.13	$0.01	0.03%	69,746,960	$2,728,501,075
1/21/2021	$43.03	$0.00	9.53%	57,079,754	$43.01	$43.03	$0.02	0.05%	69,746,960	$3,001,211,689
1/22/2021	$65.01	$0.00	41.26%	197,157,946	$64.75	$65.00	$0 25	0.39%	69,746,960	$4,534,249,870
1/25/2021	$76.79	$0.00	16.65%	177,874,000	$76.74	$76.78	$0.04	0.05%	69,746,960	$5,355,869,058
1/26/2021	$147 98	$0.00	65.60%	178,587,974	$145.43	$146.00	$0 57	0.39%	69,746,960	$10,321,155,141
1/27/2021	$347 51	$0.00	85.37%	93,396,666	$344.88	$345.01	$0 13	0.04%	69,746,960	$24,237,766,767
Average	$10.73	$0.00	1.74%	10,960,260	$10.70	$10.72	$0.01	0.18%	65,737,172	$723.1 million
Median	$4.88	$0.00	0.24%	4,555,392	$4.87	$4.88	$0.01	0.21%	65,161,610	$315.4 million
High	$347 51	$0.00	85.37%	197,157,946	$344.88	$345.01	$0 57	0.48%	69,746,960	$24,237.8 million
Low	$2.80	$0.00	-21.52%	1,330,461	$2.79	$2.80	$0.01	0.03%	64,457,992	$180.5 million

Source: CRSP & SEC Filings.

Exhibit-3f

KOSS Market Efficiency Statistics

January 28, 2020 through January 27, 2021

Date	Closing Price [a]	Dividend [b]	Log Return [b]	Volume [c]	Closing Bid [d]	Closing Ask [e]	Closing Bid/Ask Spread	Average Bid/Ask Spread %	Outstanding Shares [f]	Market Capitalization [g]
1/28/2020	$1.54	$0.00	1.97%	5,218	$1.52	$1.53	$0.01	0.66%	7,404,831	$11,403,440
1/29/2020	$1.56	$0.00	1.09%	6,449	$1.52	$1.57	$0.05	3.24%	7,404,831	$11,527,841
1/30/2020	$1.61	$0.00	3.24%	5,017	$1.56	$1.61	$0.05	3.15%	7,404,831	$11,906,968
1/31/2020	$1.48	$0.00	-8.48%	19,186	$1.44	$1.49	$0.05	3.41%	7,404,831	$10,939,157
2/3/2020	$1.47	$0.00	-0.50%	6,635	$1.44	$1.51	$0.07	4.75%	7,404,831	$10,885,102
2/4/2020	$1.48	$0.00	0.68%	5,972	$1.45	$1.50	$0.05	3.39%	7,404,831	$10,959,150
2/5/2020	$1.44	$0.00	-2.74%	4,431	$1.45	$1.48	$0.03	2.05%	7,404,831	$10,662,957
2/6/2020	$1.44	$0.00	0.00%	3,245	$1.44	$1.50	$0.06	4.08%	7,404,831	$10,662,957
2/7/2020	$1.46	$0.00	1.43%	3,479	$1.44	$1.48	$0.04	2.74%	7,404,831	$10,816,237
2/10/2020	$1.44	$0.00	-1.43%	4,136	$1.44	$1.47	$0.03	2.06%	7,404,831	$10,662,957
2/11/2020	$1.44	$0.00	0.00%	3,834	$1.46	$1.49	$0.03	2.03%	7,404,831	$10,662,957
2/12/2020	$1.48	$0.00	2.67%	2,815	$1.44	$1.52	$0.08	5.41%	7,404,831	$10,951,745
2/13/2020	$1.47	$0.00	-0.60%	8,306	$1.45	$1.52	$0.07	4.71%	7,404,831	$10,886,583
2/14/2020	$1.45	$0.00	-1.38%	1,038	$1.44	$1.49	$0.05	3.41%	7,404,831	$10,737,005
2/18/2020	$1.44	$0.00	-0.69%	15,275	$1.44	$1.45	$0.01	0.69%	7,404,831	$10,662,957
2/19/2020	$1.36	$0.00	-5.72%	36,135	$1.36	$1.40	$0.04	2.90%	7,404,831	$10,070,570
2/20/2020	$1.39	$0.00	2.18%	19,612	$1.39	$1.40	$0.01	0.72%	7,404,831	$10,292,715
2/21/2020	$1.40	$0.00	0.72%	3,585	$1.38	$1.40	$0.02	1.44%	7,404,831	$10,366,763
2/24/2020	$1.39	$0.00	-0.72%	51,480	$1.29	$1.40	$0 11	8.18%	7,404,831	$10,292,715
2/25/2020	$1.34	$0.00	-3.42%	1,986	$1.30	$1.39	$0.09	6.69%	7,404,831	$9,946,169
2/26/2020	$1.23	$0.00	-8.80%	27,885	$1.23	$1.25	$0.02	1.61%	7,404,831	$9,107,942
2/27/2020	$1.25	$0.00	2.00%	2,307	$1.23	$1.26	$0.03	2.41%	7,404,831	$9,292,322
2/28/2020	$1.19	$0.00	-5.27%	19,423	$1.19	$1.20	$0.01	0.84%	7,404,831	$8,815,451
3/2/2020	$1.26	$0.00	5.67%	8,964	$1.20	$1.26	$0.06	4.88%	7,404,831	$9,329,347
3/3/2020	$1.24	$0.00	-1.59%	2,566	$1.22	$1.25	$0.03	2.43%	7,404,831	$9,181,990
3/4/2020	$1.20	$0.00	-3.28%	14,623	$1.19	$1.20	$0.01	0.84%	7,404,831	$8,885,797
3/5/2020	$1.20	$0.00	0.00%	1,573	$1.16	$1.20	$0.04	3.39%	7,404,831	$8,885,797
3/6/2020	$1.15	$0.00	-4.26%	5,323	$1.15	$1.16	$0.01	0.87%	7,404,831	$8,515,556
3/9/2020	$1.04	$0.00	-10.52%	21,731	$1.03	$1.04	$0.01	0.97%	7,404,831	$7,665,481
3/10/2020	$1.06	$0.00	2.37%	45,190	$1.05	$1.06	$0.01	0.95%	7,404,831	$7,849,121
3/11/2020	$1.02	$0.00	-3.85%	6,722	$1.02	$1.10	$0.08	7.55%	7,404,831	$7,552,928
3/12/2020	$1.00	$0.00	-1.99%	7,919	$0.92	$0.92	$0.00	0.01%	7,404,831	$7,404,091
3/13/2020	$0.94	$0.00	-6.18%	14,496	$0.94	$0.97	$0.03	3.13%	7,404,831	$6,960,541
3/16/2020	$0.99	$0.00	5.18%	25,717	$0.91	$0.98	$0.07	7.41%	7,404,831	$7,330,783
3/17/2020	$1.00	$0.00	0.98%	12,306	$0.97	$1.00	$0.03	3.06%	7,404,831	$7,402,610
3/18/2020	$0.90	$0.00	-10.51%	9,464	$0.90	$0.99	$0.09	9.52%	7,404,831	$6,664,348
3/19/2020	$0.90	$0.00	0.01%	7,545	$0.83	$0.92	$0.09	10.05%	7,404,831	$6,665,088
3/20/2020	$0.83	$0.00	-8.10%	1,462	$0.83	$0.92	$0.09	10.27%	7,404,831	$6,146,750
3/23/2020	$0.87	$0.00	4.89%	1,202	$0.88	$0.92	$0.04	4.44%	7,404,831	$6,454,791
3/24/2020	$0.92	$0.00	4.85%	9,678	$0.91	$0.92	$0.01	1.09%	7,404,831	$6,775,420
3/25/2020	$0.83	$0.00	-9.70%	64,361	$0.83	$0.92	$0.09	10.21%	7,404,831	$6,148,972
3/26/2020	$0.87	$0.00	4.69%	5,457	$0.85	$0.87	$0.02	2.37%	7,404,831	$6,444,424
3/27/2020	$0.89	$0.00	2.24%	2,694	$0.80	$0.89	$0.09	10.27%	7,404,831	$6,590,300
3/30/2020	$0.88	$0.00	-0.77%	2,790	$0.80	$0.88	$0.08	9.27%	7,404,831	$6,539,947
3/31/2020	$0.88	$0.00	-0.36%	583	$0.81	$0.87	$0.06	7.14%	7,404,831	$6,516,251
4/1/2020	$0.84	$0.00	-4.65%	5,445	$0.83	$0.88	$0.05	5.28%	7,404,831	$6,220,058
4/2/2020	$0.86	$0.00	2.34%	771	$0.81	$0.86	$0.05	6.59%	7,404,831	$6,367,414
4/3/2020	$0.82	$0.00	-4.75%	1,095	$0.82	$0.87	$0.05	5.91%	7,404,831	$6,071,961
4/6/2020	$0.85	$0.00	3.00%	920	$0.83	$0.86	$0.03	3.55%	7,404,831	$6,257,082
4/7/2020	$0.85	$0.00	0.11%	8,784	$0.81	$0.85	$0.04	4.81%	7,404,831	$6,263,747
4/8/2020	$0.83	$0.00	-1.93%	3,134	$0.82	$0.85	$0.03	4.19%	7,404,831	$6,143,714
4/9/2020	$0.83	$0.00	0.04%	13,599	$0.83	$0.84	$0.01	1.20%	7,404,831	$6,146,010
4/13/2020	$0.95	$0.00	13.02%	23,995	$0.92	$0.95	$0.03	3.00%	7,404,831	$7,000,527
4/14/2020	$0.94	$0.00	-0.25%	9,278	$0.93	$0.94	$0.01	1.39%	7,404,831	$6,982,756
4/15/2020	$1.22	$0.00	25.75%	2,183,785	$1.21	$1.25	$0.04	3.25%	7,404,831	$9,033,894
4/16/2020	$1.21	$0.00	-0.82%	191,995	$1.32	$1.34	$0.02	1.50%	7,404,831	$8,959,846
4/17/2020	$1.12	$0.00	-7.73%	51,823	$1.13	$1.14	$0.01	0.88%	7,404,831	$8,293,411
4/20/2020	$1.08	$0.00	-3.30%	28,527	$1.08	$1.09	$0.01	0.92%	7,404,831	$8,023,875
4/21/2020	$1.16	$0.00	6.81%	58,694	$1.15	$1.17	$0.02	1.72%	7,404,831	$8,589,604

Exhibit-3f

KOSS Market Efficiency Statistics

January 28, 2020 through January 27, 2021

Date	Closing Price [a]	Dividend [b]	Log Return [b]	Volume [c]	Closing Bid [d]	Closing Ask [e]	Closing Bid/Ask Spread	Average Bid/Ask Spread %	Outstanding Shares [f]	Market Capitalization [g]
4/22/2020	$1.15	$0.00	-0.87%	489,053	$1.15	$1.22	$0.07	5.91%	7,404,831	$8,515,556
4/23/2020	$1.19	$0.00	3.42%	94,730	$1.18	$1.29	$0 11	8.91%	7,404,831	$8,811,749
4/24/2020	$1.24	$0.00	4.12%	131,617	$1.24	$1.29	$0.05	3.95%	7,404,831	$9,181,990
4/27/2020	$1.36	$0.00	9.24%	58,190	$1.34	$1.42	$0.08	5.80%	7,404,831	$10,070,570
4/28/2020	$1.42	$0.00	4.32%	45,247	$1.42	$1.47	$0.05	3.46%	7,404,831	$10,514,860
4/29/2020	$1.42	$0.00	0.06%	33,341	$1.40	$1.45	$0.05	3.51%	7,404,831	$10,520,784
4/30/2020	$1.32	$0.00	-7.36%	37,765	$1.30	$1.36	$0.06	4.51%	7,404,831	$9,774,377
5/1/2020	$1.20	$0.00	-9.52%	15,904	$1.20	$1.25	$0.05	4.08%	7,404,831	$8,886,538
5/4/2020	$1.23	$0.00	2.59%	7,558	$1.20	$1.27	$0.07	5.67%	7,404,831	$9,119,790
5/5/2020	$1.20	$0.00	-2.60%	2,227	$1.16	$1.24	$0.08	6.67%	7,404,831	$8,885,797
5/6/2020	$1.23	$0.00	2.47%	6,982	$1.19	$1.23	$0.04	3.31%	7,404,831	$9,107,942
5/7/2020	$1.23	$0.00	0.00%	29,561	$1.23	$1.24	$0.01	0.81%	7,404,831	$9,107,942
5/8/2020	$1.12	$0.00	-9.37%	58,715	$1.17	$1.24	$0.07	5.81%	7,404,831	$8,293,411
5/11/2020	$1.20	$0.00	6.90%	38,689	$1.17	$1.23	$0.06	5.00%	7,404,831	$8,885,797
5/12/2020	$1.17	$0.00	-2.53%	9,811	$1.19	$1.20	$0.01	0.84%	7,404,831	$8,663,652
5/13/2020	$1.11	$0.00	-5.26%	13,982	$1.12	$1.14	$0.02	1.77%	7,404,831	$8,219,362
5/14/2020	$1.07	$0.00	-3.67%	14,678	$1.06	$1.12	$0.06	5.50%	7,404,831	$7,923,169
5/15/2020	$1.16	$0.00	7.64%	14,853	$1.13	$1.19	$0.06	5.17%	7,404,831	$8,552,580
5/18/2020	$1.14	$0.00	-1.54%	13,563	$1.12	$1.14	$0.02	1.77%	7,404,831	$8,421,514
5/19/2020	$1.11	$0.00	-2.43%	17,511	$1.11	$1.17	$0.06	5.26%	7,404,831	$8,219,362
5/20/2020	$1.14	$0.00	2.67%	17,549	$1.12	$1.14	$0.02	1.77%	7,404,831	$8,441,507
5/21/2020	$1.12	$0.00	-1.77%	3,578	$1.12	$1.15	$0.03	2.64%	7,404,831	$8,293,411
5/22/2020	$1.14	$0.00	1.77%	13,318	$1.14	$1.15	$0.01	0.87%	7,404,831	$8,441,507
5/26/2020	$1.15	$0.00	0.45%	3,675	$1.14	$1.15	$0.01	0.87%	7,404,831	$8,479,272
5/27/2020	$1.15	$0.00	0.43%	4,385	$1.15	$1.17	$0.02	1.72%	7,404,831	$8,515,556
5/28/2020	$1.10	$0.00	-4.45%	9,560	$1.10	$1.17	$0.07	6.17%	7,404,831	$8,145,314
5/29/2020	$1.13	$0.00	2.69%	3,489	$1.13	$1.16	$0.03	2.62%	7,404,831	$8,367,459
6/1/2020	$1.13	$0.00	0.00%	16,377	$1.12	$1.14	$0.02	1.77%	7,404,831	$8,367,459
6/2/2020	$1.27	$0.00	11.68%	58,788	$1.23	$1.29	$0.06	4.76%	7,404,831	$9,404,135
6/3/2020	$1.26	$0.00	-1.19%	20,753	$1.22	$1.29	$0.07	5.58%	7,404,831	$9,293,063
6/4/2020	$1.20	$0.00	-4.90%	9,001	$1.18	$1.21	$0.03	2.51%	7,404,831	$8,848,773
6/5/2020	$1.25	$0.00	4.50%	19,809	$1.24	$1.29	$0.05	3.95%	7,404,831	$9,256,039
6/8/2020	$1.28	$0.00	2.37%	17,456	$1.28	$1.30	$0.02	1.55%	7,404,831	$9,478,184
6/9/2020	$1.41	$0.00	9.67%	147,211	$1.41	$1.48	$0.07	4.84%	7,404,831	$10,440,812
6/10/2020	$1.27	$0.00	-10.24%	39,103	$1.27	$1.29	$0.02	1.56%	7,404,831	$9,424,128
6/11/2020	$1.16	$0.00	-9.28%	25,004	$1.15	$1.16	$0.01	0.87%	7,404,831	$8,588,863
6/12/2020	$1.38	$0.00	17.37%	173,443	$1.35	$1.37	$0.02	1.47%	7,404,831	$10,218,667
6/15/2020	$1.39	$0.00	0.73%	57,551	$1.39	$1.41	$0.02	1.43%	7,404,831	$10,293,456
6/16/2020	$1.96	$0.00	34.36%	373,778	$1.95	$1.96	$0.01	0.51%	7,404,831	$14,513,469
6/17/2020	$1.72	$0.00	-13.06%	313,057	$1.68	$1.69	$0.01	0.59%	7,404,831	$12,736,309
6/18/2020	$1.65	$0.00	-4.15%	51,251	$1.63	$1.64	$0.01	0.61%	7,404,831	$12,217,971
6/19/2020	$1.61	$0.00	-2.45%	63,979	$1.61	$1.66	$0.05	3.06%	7,404,831	$11,921,778
6/22/2020	$1.76	$0.00	8.91%	99,384	$1.73	$1.76	$0.03	1.72%	7,404,831	$13,032,503
6/23/2020	$1.55	$0.00	-12.71%	55,179	$1.53	$1.55	$0.02	1.30%	7,404,831	$11,477,488
6/24/2020	$1.48	$0.00	-4.62%	34,682	$1.46	$1.53	$0.07	4.68%	7,404,831	$10,959,150
6/25/2020	$1.46	$0.00	-1.46%	15,967	$1.44	$1.46	$0.02	1.38%	7,404,831	$10,800,686
6/26/2020	$1.40	$0.00	-4.10%	12,358	$1.40	$1.46	$0.06	4.20%	7,404,831	$10,366,763
6/29/2020	$1.42	$0.00	1.42%	6,634	$1.39	$1.44	$0.05	3.53%	7,404,831	$10,514,860
6/30/2020	$1.36	$0.00	-4.32%	26,576	$1.33	$1.36	$0.03	2.23%	7,404,831	$10,070,570
7/1/2020	$1.48	$0.00	8.46%	121,654	$1.45	$1.51	$0.06	4.05%	7,404,831	$10,959,150
7/2/2020	$1.48	$0.00	0.00%	34,011	$1.44	$1.48	$0.04	2.74%	7,404,831	$10,959,150
7/6/2020	$1.48	$0.00	0.00%	9,620	$1.44	$1.49	$0.05	3.41%	7,404,831	$10,959,150
7/7/2020	$1.43	$0.00	-3.44%	2,337	$1.41	$1.43	$0.02	1.41%	7,404,831	$10,588,908
7/8/2020	$1.45	$0.00	1.63%	9,742	$1.45	$1.48	$0.03	2.05%	7,404,831	$10,762,922
7/9/2020	$1.80	$0.00	21.38%	884,725	$1.70	$1.80	$0 10	5.71%	7,404,831	$13,328,696
7/10/2020	$1.78	$0.00	-1.12%	90,201	$1.71	$1.78	$0.07	4.01%	7,404,831	$13,180,599
7/13/2020	$1.53	$0.00	-15.13%	30,855	$1.45	$1.69	$0 24	15.29%	7,404,831	$11,329,391
7/14/2020	$1.58	$0.00	3.22%	28,439	$1.58	$1.65	$0.07	4.33%	7,404,831	$11,700,373
7/15/2020	$1.58	$0.00	-0.01%	20,851	$1.57	$1.58	$0.01	0.63%	7,404,831	$11,699,633

Exhibit-3f

KOSS Market Efficiency Statistics

January 28, 2020 through January 27, 2021

Date	Closing Price [a]	Dividend [b]	Log Return [b]	Volume [c]	Closing Bid [d]	Closing Ask [e]	Closing Bid/Ask Spread	Average Bid/Ask Spread %	Outstanding Shares [f]	Market Capitalization [g]
7/16/2020	$1.62	$0.00	2.19%	11,926	$1.59	$1.64	$0.05	3.10%	7,404,831	$11,958,802
7/17/2020	$1.58	$0.00	-2.19%	25,061	$1.56	$1.61	$0.05	3.15%	7,404,831	$11,699,633
7/20/2020	$1.58	$0.00	0.00%	79,376	$1.58	$1.63	$0.05	3.12%	7,404,831	$11,699,633
7/21/2020	$1.63	$0.00	3.21%	31,203	$1.63	$1.64	$0.01	0.61%	7,404,831	$12,080,982
7/22/2020	$1.73	$0.00	5.86%	162,537	$1.73	$1.78	$0.05	2.85%	7,404,831	$12,810,358
7/23/2020	$1.77	$0.00	2.29%	105,864	$1.76	$1.81	$0.05	2.80%	7,404,831	$13,106,551
7/24/2020	$1.90	$0.00	7.09%	68,882	$1.84	$1.90	$0.06	3.21%	7,404,831	$14,069,179
7/27/2020	$2.03	$0.00	6.62%	305,267	$2.03	$2.08	$0.05	2.43%	7,404,831	$15,031,807
7/28/2020	$2.01	$0.00	-0.99%	104,966	$1.86	$2.01	$0 15	7.75%	7,404,831	$14,883,710
7/29/2020	$1.87	$0.00	-7.22%	29,059	$1.87	$1.91	$0.04	2.12%	7,404,831	$13,847,034
7/30/2020	$1.90	$0.00	1.59%	19,901	$1.90	$1.91	$0.01	0.52%	7,404,831	$14,069,179
7/31/2020	$1.90	$0.00	0.00%	24,864	$1.90	$1.92	$0.02	1.05%	7,404,831	$14,069,179
8/3/2020	$1.94	$0.00	2.08%	31,468	$1.91	$1.95	$0.04	2.07%	7,404,831	$14,365,372
8/4/2020	$2.33	$0.00	18.32%	300,675	$2.31	$2.33	$0.02	0.86%	7,404,831	$17,253,256
8/5/2020	$2.24	$0.00	-3.94%	48,703	$2.23	$2.28	$0.05	2.22%	7,404,831	$16,586,821
8/6/2020	$2.34	$0.00	4.37%	33,395	$2.30	$2.34	$0.04	1.72%	7,404,831	$17,327,305
8/7/2020	$2.33	$0.00	-0.43%	29,941	$2.27	$2.33	$0.06	2.61%	7,404,831	$17,252,516
8/10/2020	$2.40	$0.00	2.96%	55,507	$2.34	$2.38	$0.04	1.69%	7,404,831	$17,771,594
8/11/2020	$2.06	$0.00	-15.28%	542,722	$2.06	$2.25	$0 19	8.82%	7,404,831	$15,253,952
8/12/2020	$2.10	$0.00	1.92%	79,228	$2.06	$2.10	$0.04	1.92%	7,404,831	$15,550,145
8/13/2020	$2.09	$0.00	-0.48%	62,212	$2.04	$2.09	$0.05	2.42%	7,404,831	$15,476,097
8/14/2020	$2.04	$0.00	-2.42%	33,290	$2.04	$2.07	$0.03	1.46%	7,404,831	$15,105,855
8/17/2020	$2.10	$0.00	2.90%	7,838	$2.06	$2.10	$0.04	1.92%	7,404,831	$15,550,145
8/18/2020	$2.35	$0.00	11.24%	108,825	$2.34	$2.36	$0.02	0.85%	7,404,831	$17,400,612
8/19/2020	$2.17	$0.00	-7.96%	22,966	$2.16	$2.22	$0.06	2.74%	7,404,831	$16,068,483
8/20/2020	$2.66	$0.00	20.36%	105,872	$2.60	$2.61	$0.01	0.38%	7,404,831	$19,696,110
8/21/2020	$2.32	$0.00	-13.67%	80,802	$2.30	$2.33	$0.03	1.30%	7,404,831	$17,179,208
8/24/2020	$2.34	$0.00	0.86%	149,849	$2.34	$2.39	$0.05	2.11%	7,404,831	$17,327,305
8/25/2020	$2.32	$0.00	-0.86%	48,072	$2.32	$2.33	$0.01	0.43%	7,404,831	$17,179,208
8/26/2020	$2.14	$0.00	-8.08%	30,334	$2.14	$2.16	$0.02	0.93%	7,404,831	$15,846,338
8/27/2020	$2.27	$0.00	5.90%	144,577	$2.26	$2.27	$0.01	0.44%	7,404,831	$16,808,966
8/28/2020	$2.24	$0.00	-1.33%	16,527	$2.20	$2.24	$0.04	1.80%	7,404,831	$16,586,821
8/31/2020	$2.17	$0.00	-3.24%	31,186	$2.15	$2.18	$0.03	1.39%	7,404,831	$16,057,376
9/1/2020	$2.05	$0.00	-5.62%	44,385	$2.03	$2.07	$0.04	1.95%	7,404,831	$15,179,904
9/2/2020	$2.07	$0.00	0.97%	19,336	$2.04	$2.09	$0.05	2.42%	7,404,831	$15,328,000
9/3/2020	$1.94	$0.00	-6.49%	21,380	$1.92	$1.98	$0.06	3.08%	7,404,831	$14,365,372
9/4/2020	$1.91	$0.00	-1.60%	14,592	$1.90	$1.92	$0.02	1.05%	7,404,831	$14,138,044
9/8/2020	$1.98	$0.00	3.64%	16,210	$1.92	$1.96	$0.04	2.06%	7,404,831	$14,661,565
9/9/2020	$1.95	$0.00	-1.53%	4,829	$1.91	$1.95	$0.04	2.07%	7,404,831	$14,439,420
9/10/2020	$1.97	$0.00	1.02%	7,611	$1.93	$1.98	$0.05	2.56%	7,404,831	$14,587,517
9/11/2020	$2.08	$0.00	5.43%	35,794	$2.05	$2.10	$0.05	2.41%	7,404,831	$15,402,048
9/14/2020	$2.15	$0.00	3.31%	7,013	$2.04	$2.15	$0 11	5.25%	7,404,831	$15,920,387
9/15/2020	$2.05	$0.00	-4.76%	21,024	$2.05	$2.12	$0.07	3.36%	7,404,831	$15,179,904
9/16/2020	$2.07	$0.00	0.97%	9,747	$2.07	$2.12	$0.05	2.39%	7,404,831	$15,328,000
9/17/2020	$2.15	$0.00	3.79%	2,768	$2.10	$2.15	$0.05	2.35%	7,404,831	$15,920,387
9/18/2020	$2.07	$0.00	-3.79%	7,752	$2.07	$2.17	$0 10	4.72%	7,404,831	$15,328,000
9/21/2020	$2.16	$0.00	4.26%	9,229	$2.09	$2.17	$0.08	3.76%	7,404,831	$15,994,435
9/22/2020	$2.14	$0.00	-0.93%	990	$2.10	$2.15	$0.05	2.35%	7,404,831	$15,846,338
9/23/2020	$2.17	$0.00	1.39%	757	$2.14	$2.17	$0.03	1.39%	7,404,831	$16,068,483
9/24/2020	$2.32	$0.00	6.68%	42,793	$2.29	$2.32	$0.03	1.30%	7,404,831	$17,179,208
9/25/2020	$2.22	$0.00	-4.63%	1,575	$2.19	$2.25	$0.06	2.70%	7,404,831	$16,401,701
9/28/2020	$2.20	$0.00	-0.68%	29,836	$2.19	$2.24	$0.05	2.26%	7,404,831	$16,290,628
9/29/2020	$2.14	$0.00	-2.77%	7,530	$2.14	$2.18	$0.04	1.85%	7,404,831	$15,846,338
9/30/2020	$2.14	$0.00	0.00%	1,766	$2.14	$2.17	$0.03	1.39%	7,404,831	$15,846,338
10/1/2020	$2.17	$0.00	1.39%	9,991	$2.11	$2.17	$0.06	2.80%	7,404,831	$16,068,483
10/2/2020	$2.16	$0.00	-0.69%	191	$2.13	$2.18	$0.05	2.32%	7,404,831	$15,957,411
10/5/2020	$2.15	$0.00	-0.23%	8,415	$2.15	$2.18	$0.03	1.39%	7,404,831	$15,920,387
10/6/2020	$2.15	$0.00	0.00%	9,275	$2.15	$2.21	$0.06	2.75%	7,404,831	$15,920,387
10/7/2020	$2.20	$0.00	2.30%	6,884	$2.17	$2.24	$0.07	3.17%	7,404,831	$16,290,628

Exhibit-3f

KOSS Market Efficiency Statistics

January 28, 2020 through January 27, 2021

Date	Closing Price [a]	Dividend [b]	Log Return [b]	Volume [c]	Closing Bid [d]	Closing Ask [e]	Closing Bid/Ask Spread	Average Bid/Ask Spread %	Outstanding Shares [f]	Market Capitalization [g]
10/8/2020	$2.19	$0.00	-0.46%	21,458	$2.16	$2.20	$0.04	1.83%	7,404,831	$16,216,580
10/9/2020	$2.17	$0.00	-0.92%	5,956	$2.16	$2.20	$0.04	1.83%	7,404,831	$16,068,483
10/12/2020	$2.31	$0.00	6.25%	164,426	$2.22	$2.31	$0.09	3.97%	7,404,831	$17,105,160
10/13/2020	$2.19	$0.00	-5.33%	12,959	$2.15	$2.24	$0.09	4.10%	7,404,831	$16,216,580
10/14/2020	$2.20	$0.00	0.46%	3,265	$2.17	$2.24	$0.07	3.17%	7,404,831	$16,290,628
10/15/2020	$2.07	$0.00	-6.09%	8,757	$2.09	$2.17	$0.08	3.76%	7,404,831	$15,328,000
10/16/2020	$2.20	$0.00	6.14%	14,041	$2.15	$2.23	$0.08	3.65%	7,404,831	$16,298,033
10/19/2020	$2.13	$0.00	-3.27%	5,544	$2.15	$2.19	$0.04	1.84%	7,404,831	$15,773,031
10/20/2020	$2.28	$0.00	6.80%	59,800	$2.19	$2.29	$0 10	4.46%	7,404,831	$16,883,015
10/21/2020	$2.24	$0.00	-1.77%	11,547	$2.21	$2.30	$0.09	3.99%	7,404,831	$16,586,821
10/22/2020	$2.15	$0.00	-4.10%	827	$2.14	$2.28	$0 14	6.33%	7,404,831	$15,920,387
10/23/2020	$2.16	$0.00	0.62%	2,382	$2.15	$2.20	$0.05	2.30%	7,404,831	$16,018,871
10/26/2020	$2.14	$0.00	-1.08%	11,593	$2.10	$2.19	$0.09	4.20%	7,404,831	$15,846,338
10/27/2020	$2.19	$0.00	2.31%	7,735	$2.12	$2.18	$0.06	2.79%	7,404,831	$16,216,580
10/28/2020	$2.10	$0.00	-4.37%	4,888	$2.10	$2.17	$0.07	3.28%	7,404,831	$15,522,747
10/29/2020	$2.07	$0.00	-1.04%	3,878	$2.06	$2.15	$0.09	4.28%	7,404,831	$15,362,803
10/30/2020	$2.12	$0.00	1.92%	344	$2.09	$2.14	$0.05	2.36%	7,404,831	$15,661,218
11/2/2020	$2.03	$0.00	-4.10%	3,784	$2.04	$2.17	$0 13	6.18%	7,404,831	$15,031,807
11/3/2020	$2.11	$0.00	3.63%	739	$2.06	$2.17	$0 11	5.20%	7,404,831	$15,587,169
11/4/2020	$2.10	$0.00	-0.24%	1,559	$2.05	$2.16	$0 11	5.23%	7,404,831	$15,550,145
11/5/2020	$2.06	$0.00	-1.92%	1,885	$2.05	$2.14	$0.09	4.30%	7,404,831	$15,253,952
11/6/2020	$2.06	$0.00	0.00%	558	$2.06	$2.15	$0.09	4.28%	7,404,831	$15,253,952
11/9/2020	$2.06	$0.00	0.00%	515	$2.05	$2.14	$0.09	4.30%	7,404,831	$15,253,952
11/10/2020	$2.11	$0.00	2.16%	2,515	$2.08	$2.15	$0.07	3.31%	7,404,831	$15,587,169
11/11/2020	$2.16	$0.00	2.58%	2,986	$2.08	$2.16	$0.08	3.77%	7,404,831	$15,994,435
11/12/2020	$2.08	$0.00	-3.77%	1,333	$2.10	$2.16	$0.06	2.82%	7,404,831	$15,402,048
11/13/2020	$2.16	$0.00	3.77%	3,632	$2.10	$2.17	$0.07	3.28%	7,404,831	$15,994,435
11/16/2020	$2.10	$0.00	-2.82%	7,795	$2.10	$2.19	$0.09	4.20%	7,404,831	$15,550,145
11/17/2020	$2.12	$0.00	0.95%	4,241	$2.07	$2.12	$0.05	2.39%	7,404,831	$15,698,242
11/18/2020	$2.09	$0.00	-1.43%	1,055	$2.08	$2.10	$0.02	0.96%	7,404,831	$15,476,097
11/19/2020	$2.09	$0.00	0.00%	8,313	$2.08	$2.10	$0.02	0.96%	7,404,831	$15,476,097
11/20/2020	$2.08	$0.00	-0.72%	1,118	$2.06	$2.09	$0.03	1.45%	7,404,831	$15,365,024
11/23/2020	$2.09	$0.00	0.72%	989	$2.07	$2.14	$0.07	3.33%	7,404,831	$15,476,097
11/24/2020	$2.15	$0.00	2.96%	18,853	$2.11	$2.19	$0.08	3.72%	7,404,831	$15,940,380
11/25/2020	$2.13	$0.00	-1.00%	5,054	$2.11	$2.16	$0.05	2.34%	7,404,831	$15,781,176
11/27/2020	$2.20	$0.00	3.15%	274	$2.12	$2.20	$0.08	3.70%	7,404,831	$16,285,445
11/30/2020	$2.16	$0.00	-1.80%	7,775	$2.12	$2.20	$0.08	3.70%	7,404,831	$15,994,435
12/1/2020	$2.80	$0.00	25.95%	124,400	$2.44	$2.88	$0.44	16.54%	7,404,831	$20,733,527
12/2/2020	$2.56	$0.00	-8.96%	14,989	$2.56	$2.61	$0.05	1.93%	7,404,831	$18,956,367
12/3/2020	$2.70	$0.00	5.32%	9,835	$2.61	$2.70	$0.09	3.39%	7,404,831	$19,993,044
12/4/2020	$2.54	$0.00	-6.11%	15,278	$2.39	$2.67	$0 28	11.07%	7,404,831	$18,808,271
12/7/2020	$2.57	$0.00	1.17%	3,382	$2.53	$2.62	$0.09	3.50%	7,404,831	$19,030,416
12/8/2020	$2.51	$0.00	-2.36%	3,185	$2.50	$2.53	$0.03	1.19%	7,404,831	$18,586,126
12/9/2020	$2.50	$0.00	-0.40%	10,089	$2.50	$2.51	$0.01	0.40%	7,404,831	$18,512,078
12/10/2020	$2.38	$0.00	-5.10%	4,334	$2.35	$2.49	$0 14	5.79%	7,404,831	$17,590,917
12/11/2020	$2.38	$0.00	-0.03%	580	$2.36	$2.39	$0.03	1.26%	7,404,831	$17,586,474
12/14/2020	$2.45	$0.00	3.11%	3,068	$2.44	$2.52	$0.08	3.23%	7,404,831	$18,141,836
12/15/2020	$2.50	$0.00	2.02%	685	$2.45	$2.50	$0.05	2.02%	7,404,831	$18,512,078
12/16/2020	$2.55	$0.00	1.98%	3,466	$2.47	$2.60	$0 13	5.13%	7,404,831	$18,882,319
12/17/2020	$2.55	$0.00	0.00%	2,092	$2.50	$2.58	$0.08	3.15%	7,404,831	$18,882,319
12/18/2020	$2.38	$0.00	-6.90%	6,930	$2.36	$2.56	$0 20	8.13%	7,404,831	$17,623,498
12/21/2020	$2.47	$0.00	3.71%	15,413	$2.47	$2.51	$0.04	1.61%	7,404,831	$18,289,933
12/22/2020	$2.44	$0.00	-1.22%	4,464	$2.40	$2.48	$0.08	3.28%	7,404,831	$18,067,788
12/23/2020	$2.34	$0.00	-4.18%	8,480	$2.34	$2.37	$0.03	1.27%	7,404,831	$17,327,305
12/24/2020	$2.34	$0.00	0.00%	4,871	$2.34	$2.47	$0 13	5.41%	7,404,831	$17,327,305
12/28/2020	$2.40	$0.00	2.53%	793,307	$2.33	$2.45	$0 12	5.02%	7,404,831	$17,771,594
12/29/2020	$3.44	$0.00	36.00%	15,309,448	$3.39	$3.43	$0.04	1.17%	7,404,831	$25,472,619
12/30/2020	$3.70	$0.00	7.29%	998,852	$3.51	$3.70	$0 19	5.27%	7,404,831	$27,397,875
12/31/2020	$3.44	$0.00	-7.29%	331,697	$3.26	$3.44	$0 18	5.37%	7,404,831	$25,472,619

Exhibit-3f

KOSS Market Efficiency Statistics

January 28, 2020 through January 27, 2021

Date	Closing Price	Dividend	Log Return	Volume	Closing Bid	Closing Ask	Closing Bid/Ask Spread	Average Bid/Ask Spread %	Outstanding Shares	Market Capitalization
	[a]	[b]	[b]	[c]	[d]	[e]			[f]	[g]
1/4/2021	$3.19	$0.00	-7.55%	244,489	$3.10	$3.19	$0.09	2.86%	7,404,831	$23,621,411
1/5/2021	$3.11	$0.00	-2.54%	116,619	$3.31	$3.35	$0.04	1.20%	7,404,831	$23,029,024
1/6/2021	$3.05	$0.00	-1.95%	34,379	$3.04	$3.09	$0.05	1.63%	7,404,831	$22,584,735
1/7/2021	$3.15	$0.00	3.23%	84,545	$3.15	$3.17	$0.02	0.63%	7,404,831	$23,325,218
1/8/2021	$3.27	$0.00	3.74%	62,236	$3.17	$3.27	$0 10	3.11%	7,404,831	$24,213,797
1/11/2021	$3.20	$0.00	-2.16%	39,983	$3.20	$3.22	$0.02	0.62%	7,404,831	$23,696,200
1/12/2021	$3.24	$0.00	1.24%	40,380	$3.24	$3.26	$0.02	0.62%	7,404,831	$23,991,652
1/13/2021	$3.11	$0.00	-4.10%	28,254	$3.10	$3.14	$0.04	1.28%	7,404,831	$23,029,024
1/14/2021	$3.07	$0.00	-1.29%	26,237	$3.07	$3.10	$0.03	0.97%	7,404,831	$22,732,831
1/15/2021	$2.90	$0.00	-5.70%	82,591	$2.85	$2.90	$0.05	1.74%	7,404,831	$21,474,010
1/19/2021	$3.62	$0.00	22.18%	712,364	$3.56	$3.62	$0.06	1.67%	7,404,831	$26,805,488
1/20/2021	$3.43	$0.00	-5.39%	567,463	$3.40	$3.43	$0.03	0.88%	7,404,831	$25,398,570
1/21/2021	$3.54	$0.00	3.16%	96,964	$3.45	$3.55	$0 10	2.86%	7,404,831	$26,213,102
1/22/2021	$3.34	$0.00	-5.82%	121,628	$3.33	$3.40	$0.07	2.08%	7,404,831	$24,732,136
1/25/2021	$6.00	$0.00	58.58%	8,507,708	$5.87	$5.88	$0.01	0.17%	7,404,831	$44,428,986
1/26/2021	$10.00	$0.00	51.08%	34,527,614	$9.94	$10.00	$0.06	0.60%	7,404,831	$74,048,310
1/27/2021	$58.00	$0.00	175.79%	24,943,925	$35.02	$58.00	$22 98	49.41%	7,616,219	$441,740,702
Average	$2.08	$0.00	1.44%	390,380	$1.97	$2.11	$0 15	3.40%	7,405,667	$15.5 million
Median	$1.90	$0.00	0.00%	14,623	$1.90	$1.92	$0.05	2.74%	7,404,831	$14.1 million
High	$58.00	$0.00	175.79%	34,527,614	$35.02	$58.00	$22 98	49.41%	7,616,219	$441.7 million
Low	$0.82	$0.00	-15.28%	191	$0.80	$0.84	$0.00	0.01%	7,404,831	$6.1 million

Source: CRSP & SEC Filings.

Exhibit-3g

NOK Market Efficiency Statistics

January 28, 2020 through January 27, 2021

Date	Closing Price	Dividend	Log Return	Volume	Closing Bid	Closing Ask	Closing Bid/Ask Spread	Average Bid/Ask Spread %	Outstanding Shares	Market Capitalization
	[a]	[b]	[b]	[c]	[d]	[e]			[f]	[g]
1/28/2020	$4.02	$0.00	2.01%	23,543,503	$4.03	$4.04	$0.01	0.25%	728,459,602	$2,928,407,600
1/29/2020	$3.91	$0.00	-2.77%	27,741,422	$3.90	$3.91	$0.01	0.26%	728,459,602	$2,848,277,044
1/30/2020	$3.96	$0.00	1.27%	23,305,229	$3.94	$3.95	$0.01	0.25%	728,459,602	$2,884,700,024
1/31/2020	$3.88	$0.00	-2.04%	25,612,127	$3.87	$3.88	$0.01	0.26%	728,459,602	$2,826,423,256
2/3/2020	$3.88	$0.00	0.00%	31,627,824	$3.88	$3.89	$0.01	0.26%	728,459,602	$2,826,423,256
2/4/2020	$3.96	$0.00	2.04%	29,709,894	$3.95	$3.96	$0.01	0.25%	728,459,602	$2,884,700,024
2/5/2020	$4.03	$0.00	1.75%	27,448,427	$4.02	$4.03	$0.01	0.25%	728,459,602	$2,935,692,196
2/6/2020	$4.20	$0.00	4.13%	90,257,751	$4.20	$4.21	$0.01	0.24%	728,459,602	$3,059,530,328
2/7/2020	$4.37	$0.00	3.97%	102,719,682	$4.37	$4.38	$0.01	0.23%	728,459,602	$3,183,368,461
2/10/2020	$4.26	$0.00	-2.55%	63,116,677	$4.26	$4.27	$0.01	0.23%	728,459,602	$3,103,237,905
2/11/2020	$4.41	$0.00	3.46%	82,755,562	$4.40	$4.41	$0.01	0.23%	728,459,602	$3,212,506,845
2/12/2020	$4.41	$0.00	0.00%	34,736,884	$4.41	$4.42	$0.01	0.23%	728,459,602	$3,212,506,845
2/13/2020	$4.34	$0.00	-1.60%	30,693,461	$4.33	$4.34	$0.01	0.23%	728,459,602	$3,161,514,673
2/14/2020	$4.33	$0.00	-0.23%	23,030,758	$4.32	$4.33	$0.01	0.23%	728,459,602	$3,154,230,077
2/18/2020	$4.25	$0.00	-1.86%	22,440,174	$4.24	$4.25	$0.01	0.24%	728,459,602	$3,095,953,309
2/19/2020	$4.20	$0.00	-1.18%	26,638,555	$4.20	$4.21	$0.01	0.24%	728,459,602	$3,059,530,328
2/20/2020	$4.16	$0.00	-0.96%	25,590,372	$4.15	$4.16	$0.01	0.24%	728,459,602	$3,030,391,944
2/21/2020	$4.16	$0.00	0.00%	21,122,889	$4.16	$4.17	$0.01	0.24%	728,459,602	$3,030,391,944
2/24/2020	$4.02	$0.00	-3.42%	35,855,121	$4.01	$4.02	$0.01	0.25%	728,459,602	$2,928,407,600
2/25/2020	$3.91	$0.00	-2.77%	35,960,648	$3.91	$3.92	$0.01	0.26%	728,459,602	$2,848,277,044
2/26/2020	$4.15	$0.00	5.96%	93,312,030	$4.15	$4.16	$0.01	0.24%	728,459,602	$3,023,107,348
2/27/2020	$3.96	$0.00	-4.69%	62,126,701	$3.95	$3.96	$0.01	0.25%	728,459,602	$2,884,700,024
2/28/2020	$3.87	$0.00	-2.30%	58,540,332	$3.87	$3.88	$0.01	0.26%	728,459,602	$2,819,138,660
3/2/2020	$3.93	$0.00	1.54%	41,572,097	$3.93	$3.94	$0.01	0.25%	728,459,602	$2,862,846,236
3/3/2020	$3.79	$0.00	-3.63%	45,558,094	$3.78	$3.79	$0.01	0.26%	728,459,602	$2,760,861,892
3/4/2020	$3.86	$0.00	1.83%	23,839,590	$3.85	$3.86	$0.01	0.26%	728,459,602	$2,811,854,064
3/5/2020	$3.66	$0.00	-5.32%	35,255,438	$3.68	$3.69	$0.01	0.27%	728,459,602	$2,666,162,143
3/6/2020	$3.57	$0.00	-2.49%	39,638,337	$3.56	$3.57	$0.01	0.28%	728,459,602	$2,600,600,779
3/9/2020	$3.31	$0.00	-7.56%	54,609,286	$3.31	$3.32	$0.01	0.30%	728,459,602	$2,411,201,283
3/10/2020	$3.32	$0.00	0.30%	42,384,203	$3.31	$3.32	$0.01	0.30%	728,459,602	$2,418,485,879
3/11/2020	$3.13	$0.00	-5.89%	41,335,544	$3.12	$3.13	$0.01	0.32%	728,459,602	$2,280,078,554
3/12/2020	$2.61	$0.00	-18.17%	51,754,581	$2.63	$2.64	$0.01	0.38%	728,459,602	$1,901,279,561
3/13/2020	$2.74	$0.00	4.86%	31,675,102	$2.74	$2.75	$0.01	0.36%	728,459,602	$1,995,979,309
3/16/2020	$2.42	$0.00	-12.42%	27,259,527	$2.41	$2.42	$0.01	0.41%	728,459,602	$1,762,872,237
3/17/2020	$2.53	$0.00	4.45%	29,468,848	$2.52	$2.53	$0.01	0.40%	728,459,602	$1,843,002,793
3/18/2020	$2.43	$0.00	-4.03%	42,501,293	$2.44	$2.45	$0.01	0.41%	728,459,602	$1,770,156,833
3/19/2020	$2.56	$0.00	5.21%	40,297,739	$2.54	$2.55	$0.01	0.39%	728,459,602	$1,864,856,581
3/20/2020	$2.66	$0.00	3.83%	49,575,219	$2.66	$2.67	$0.01	0.38%	728,459,602	$1,937,702,541
3/23/2020	$2.65	$0.00	-0.38%	46,726,693	$2.65	$2.66	$0.01	0.38%	728,459,602	$1,930,417,945
3/24/2020	$2.94	$0.00	10.38%	47,526,082	$2.94	$2.95	$0.01	0.34%	728,459,602	$2,141,671,230
3/25/2020	$3.07	$0.00	4.33%	48,724,406	$3.06	$3.07	$0.01	0.33%	728,459,602	$2,236,370,978
3/26/2020	$3.15	$0.00	2.57%	35,238,500	$3.15	$3.16	$0.01	0.32%	728,459,602	$2,294,647,746
3/27/2020	$3.01	$0.00	-4.55%	31,098,789	$3.00	$3.01	$0.01	0.33%	728,459,602	$2,192,663,402
3/30/2020	$3.05	$0.00	1.32%	20,464,501	$3.04	$3.05	$0.01	0.33%	728,459,602	$2,221,801,786
3/31/2020	$3.10	$0.00	1.63%	29,417,566	$3.10	$3.11	$0.01	0.32%	728,459,602	$2,258,224,766
4/1/2020	$2.97	$0.00	-4.28%	22,136,792	$2.97	$2.98	$0.01	0.34%	728,459,602	$2,163,525,018
4/2/2020	$3.04	$0.00	2.33%	23,224,722	$3.03	$3.04	$0.01	0.33%	728,459,602	$2,214,517,190
4/3/2020	$2.97	$0.00	-2.33%	17,041,702	$2.96	$2.97	$0.01	0.34%	728,459,602	$2,163,525,018
4/6/2020	$3.16	$0.00	6.20%	23,284,557	$3.16	$3.17	$0.01	0.32%	728,459,602	$2,301,932,342
4/7/2020	$3.16	$0.00	0.00%	27,185,871	$3.15	$3.16	$0.01	0.32%	728,459,602	$2,301,932,342
4/8/2020	$3.24	$0.00	2.50%	18,400,661	$3.24	$3.25	$0.01	0.31%	728,459,602	$2,360,209,110
4/9/2020	$3.27	$0.00	0.92%	20,956,233	$3.27	$3.28	$0.01	0.31%	728,459,602	$2,382,062,899
4/13/2020	$3.25	$0.00	-0.61%	11,758,444	$3.24	$3.25	$0.01	0.31%	728,459,602	$2,367,493,707
4/14/2020	$3.37	$0.00	3.63%	27,570,972	$3.37	$3.38	$0.01	0.30%	728,459,602	$2,454,908,859
4/15/2020	$3.23	$0.00	-4.24%	23,708,870	$3.22	$3.23	$0.01	0.31%	728,459,602	$2,352,924,514
4/16/2020	$3.46	$0.00	6.88%	83,467,874	$3.46	$3.47	$0.01	0.29%	728,459,602	$2,520,470,223
4/17/2020	$3.48	$0.00	0.58%	34,633,125	$3.47	$3.48	$0.01	0.29%	728,459,602	$2,535,039,415
4/20/2020	$3.44	$0.00	-1.16%	16,577,499	$3.44	$3.45	$0.01	0.29%	728,459,602	$2,505,901,031
4/21/2020	$3.36	$0.00	-2.35%	22,449,461	$3.36	$3.37	$0.01	0.30%	728,459,602	$2,447,624,263

Exhibit-3g

NOK Market Efficiency Statistics

January 28, 2020 through January 27, 2021

Date	Closing Price	Dividend	Log Return	Volume	Closing Bid	Closing Ask	Closing Bid/Ask Spread	Average Bid/Ask Spread %	Outstanding Shares	Market Capitalization
	[a]	[b]	[b]	[c]	[d]	[e]			[f]	[g]
4/22/2020	$3.38	$0.00	0.59%	18,071,958	$3.37	$3.38	$0.01	0.30%	728,459,602	$2,462,193,455
4/23/2020	$3.39	$0.00	0.30%	23,344,676	$3.38	$3.39	$0.01	0.30%	728,459,602	$2,469,478,051
4/24/2020	$3.39	$0.00	0.00%	16,388,560	$3.39	$3.40	$0.01	0.29%	728,459,602	$2,469,478,051
4/27/2020	$3.46	$0.00	2.04%	12,403,717	$3.45	$3.46	$0.01	0.29%	728,459,602	$2,520,470,223
4/28/2020	$3.41	$0.00	-1.46%	26,159,500	$3.41	$3.42	$0.01	0.29%	728,459,602	$2,484,047,243
4/29/2020	$3.51	$0.00	2.89%	22,155,567	$3.50	$3.51	$0.01	0.29%	728,459,602	$2,556,893,203
4/30/2020	$3.58	$0.00	1.97%	55,906,505	$3.57	$3.58	$0.01	0.28%	728,459,602	$2,607,885,375
5/1/2020	$3.60	$0.00	0.56%	32,805,513	$3.60	$3.61	$0.01	0.28%	728,459,602	$2,622,454,567
5/4/2020	$3.55	$0.00	-1.40%	23,352,937	$3.55	$3.56	$0.01	0.28%	728,459,602	$2,586,031,587
5/5/2020	$3.46	$0.00	-2.57%	20,014,670	$3.46	$3.47	$0.01	0.29%	728,459,602	$2,520,470,223
5/6/2020	$3.46	$0.00	0.00%	19,892,258	$3.46	$3.47	$0.01	0.29%	728,459,602	$2,520,470,223
5/7/2020	$3.55	$0.00	2.57%	14,407,297	$3.54	$3.55	$0.01	0.28%	728,459,602	$2,586,031,587
5/8/2020	$3.58	$0.00	0.84%	17,426,307	$3.58	$3.59	$0.01	0.28%	728,459,602	$2,607,885,375
5/11/2020	$3.57	$0.00	-0.28%	14,345,988	$3.57	$3.58	$0.01	0.28%	728,459,602	$2,600,600,779
5/12/2020	$3.57	$0.00	0.00%	16,924,284	$3.56	$3.57	$0.01	0.28%	728,459,602	$2,600,600,779
5/13/2020	$3.44	$0.00	-3.71%	27,715,808	$3.43	$3.44	$0.01	0.29%	728,459,602	$2,505,901,031
5/14/2020	$3.42	$0.00	-0.58%	24,552,470	$3.41	$3.42	$0.01	0.29%	728,459,602	$2,491,331,839
5/15/2020	$3.45	$0.00	0.87%	15,698,764	$3.45	$3.46	$0.01	0.29%	728,459,602	$2,513,185,627
5/18/2020	$3.65	$0.00	5.64%	25,662,069	$3.66	$3.67	$0.01	0.27%	728,459,602	$2,658,877,547
5/19/2020	$3.69	$0.00	1.09%	21,212,762	$3.69	$3.70	$0.01	0.27%	728,459,602	$2,688,015,931
5/20/2020	$3.82	$0.00	3.46%	22,489,460	$3.82	$3.83	$0.01	0.26%	728,459,602	$2,782,715,680
5/21/2020	$3.77	$0.00	-1.32%	20,947,676	$3.77	$3.78	$0.01	0.26%	728,459,602	$2,746,292,700
5/22/2020	$3.85	$0.00	2.10%	18,401,454	$3.85	$3.86	$0.01	0.26%	728,459,602	$2,804,569,468
5/26/2020	$3.85	$0.00	0.00%	17,393,962	$3.85	$3.86	$0.01	0.26%	728,459,602	$2,804,569,468
5/27/2020	$3.91	$0.00	1.55%	25,093,150	$3.91	$3.92	$0.01	0.26%	728,459,602	$2,848,277,044
5/28/2020	$3.92	$0.00	0.26%	22,196,979	$3.92	$3.93	$0.01	0.25%	728,459,602	$2,855,561,640
5/29/2020	$3.95	$0.00	0.76%	21,067,361	$3.95	$3.96	$0.01	0.25%	728,459,602	$2,877,415,428
6/1/2020	$4.20	$0.00	6.14%	39,542,103	$4.20	$4.21	$0.01	0.24%	728,459,602	$3,059,530,328
6/2/2020	$4.31	$0.00	2.59%	36,621,473	$4.30	$4.31	$0.01	0.23%	728,459,602	$3,139,660,885
6/3/2020	$4.37	$0.00	1.38%	32,103,072	$4.36	$4.37	$0.01	0.23%	728,459,602	$3,183,368,461
6/4/2020	$4.28	$0.00	-2.08%	38,453,740	$4.28	$4.29	$0.01	0.23%	728,459,602	$3,117,807,097
6/5/2020	$4.46	$0.00	4.12%	33,115,866	$4.46	$4.47	$0.01	0.22%	728,459,602	$3,248,929,825
6/8/2020	$4.52	$0.00	1.34%	38,203,516	$4.52	$4.53	$0.01	0.22%	728,459,602	$3,292,637,401
6/9/2020	$4.42	$0.00	-2.24%	35,176,850	$4.42	$4.43	$0.01	0.23%	728,459,602	$3,219,791,441
6/10/2020	$4.45	$0.00	0.68%	34,982,306	$4.45	$4.46	$0.01	0.22%	728,459,602	$3,241,645,229
6/11/2020	$4.11	$0.00	-7.95%	49,802,321	$4.10	$4.11	$0.01	0.24%	728,459,602	$2,993,968,964
6/12/2020	$4.20	$0.00	2.17%	38,508,117	$4.19	$4.20	$0.01	0.24%	728,459,602	$3,059,530,328
6/15/2020	$4.28	$0.00	1.89%	39,958,260	$4.27	$4.28	$0.01	0.23%	728,459,602	$3,117,807,097
6/16/2020	$4.34	$0.00	1.39%	36,960,910	$4.34	$4.35	$0.01	0.23%	728,459,602	$3,161,514,673
6/17/2020	$4.41	$0.00	1.60%	31,784,537	$4.41	$4.42	$0.01	0.23%	728,459,602	$3,212,506,845
6/18/2020	$4.37	$0.00	-0.91%	26,224,120	$4.37	$4.38	$0.01	0.23%	728,459,602	$3,183,368,461
6/19/2020	$4.33	$0.00	-0.92%	21,062,224	$4.32	$4.33	$0.01	0.23%	728,459,602	$3,154,230,077
6/22/2020	$4.33	$0.00	0.00%	20,886,705	$4.32	$4.33	$0.01	0.23%	728,459,602	$3,154,230,077
6/23/2020	$4.33	$0.00	0.00%	20,228,602	$4.33	$4.34	$0.01	0.23%	728,459,602	$3,154,230,077
6/24/2020	$4.20	$0.00	-3.05%	36,423,147	$4.19	$4.20	$0.01	0.24%	728,459,602	$3,059,530,328
6/25/2020	$4.45	$0.00	5.78%	43,493,918	$4.44	$4.45	$0.01	0.22%	728,459,602	$3,241,645,229
6/26/2020	$4.34	$0.00	-2.50%	40,939,647	$4.34	$4.35	$0.01	0.23%	728,459,602	$3,161,514,673
6/29/2020	$4.35	$0.00	0.23%	30,304,159	$4.35	$4.36	$0.01	0.23%	728,459,602	$3,168,799,269
6/30/2020	$4.40	$0.00	1.14%	21,533,680	$4.39	$4.40	$0.01	0.23%	728,459,602	$3,205,222,249
7/1/2020	$4.35	$0.00	-1.14%	24,728,819	$4.35	$4.36	$0.01	0.23%	728,459,602	$3,168,799,269
7/2/2020	$4.44	$0.00	2.05%	26,431,196	$4.43	$4.44	$0.01	0.23%	728,459,602	$3,234,360,633
7/6/2020	$4.60	$0.00	3.54%	56,522,998	$4.59	$4.60	$0.01	0.22%	728,459,602	$3,350,914,169
7/7/2020	$4.31	$0.00	-6.51%	59,104,940	$4.30	$4.31	$0.01	0.23%	728,459,602	$3,139,660,885
7/8/2020	$4.15	$0.00	-3.78%	56,456,497	$4.15	$4.16	$0.01	0.24%	728,459,602	$3,023,107,348
7/9/2020	$4.17	$0.00	0.48%	37,914,519	$4.17	$4.18	$0.01	0.24%	728,459,602	$3,037,676,540
7/10/2020	$4.12	$0.00	-1.21%	25,485,082	$4.12	$4.13	$0.01	0.24%	728,459,602	$3,001,253,560
7/13/2020	$4.18	$0.00	1.45%	37,504,704	$4.18	$4.19	$0.01	0.24%	728,459,602	$3,044,961,136
7/14/2020	$4.32	$0.00	3.29%	38,866,960	$4.31	$4.32	$0.01	0.23%	728,459,602	$3,146,945,481
7/15/2020	$4.33	$0.00	0.23%	29,809,679	$4.32	$4.33	$0.01	0.23%	728,459,602	$3,154,230,077

Exhibit-3g

NOK Market Efficiency Statistics

January 28, 2020 through January 27, 2021

Date	Closing Price [a]	Dividend [b]	Log Return [b]	Volume [c]	Closing Bid [d]	Closing Ask [e]	Closing Bid/Ask Spread	Average Bid/Ask Spread %	Outstanding Shares [f]	Market Capitalization [g]
7/16/2020	$4.24	$0.00	-2.10%	21,948,722	$4.23	$4.24	$0.01	0.24%	728,459,602	$3,088,668,712
7/17/2020	$4.39	$0.00	3.48%	50,122,214	$4.39	$4.40	$0.01	0.23%	728,459,602	$3,197,937,653
7/20/2020	$4.45	$0.00	1.36%	30,552,930	$4.44	$4.45	$0.01	0.22%	728,459,602	$3,241,645,229
7/21/2020	$4.43	$0.00	-0.45%	26,461,380	$4.43	$4.44	$0.01	0.23%	728,459,602	$3,227,076,037
7/22/2020	$4.50	$0.00	1.57%	23,368,030	$4.50	$4.51	$0.01	0.22%	728,459,602	$3,278,068,209
7/23/2020	$4.37	$0.00	-2.93%	35,977,321	$4.36	$4.37	$0.01	0.23%	728,459,602	$3,183,368,461
7/24/2020	$4.30	$0.00	-1.61%	22,774,410	$4.30	$4.31	$0.01	0.23%	728,459,602	$3,132,376,289
7/27/2020	$4.34	$0.00	0.93%	21,065,909	$4.34	$4.35	$0.01	0.23%	728,459,602	$3,161,514,673
7/28/2020	$4.28	$0.00	-1.39%	19,863,419	$4.28	$4.29	$0.01	0.23%	728,459,602	$3,117,807,097
7/29/2020	$4.34	$0.00	1.39%	15,453,397	$4.34	$4.35	$0.01	0.23%	728,459,602	$3,161,514,673
7/30/2020	$4.45	$0.00	2.50%	58,415,891	$4.44	$4.45	$0.01	0.22%	728,459,602	$3,241,645,229
7/31/2020	$4.78	$0.00	7.15%	117,959,817	$4.78	$4.79	$0.01	0.21%	728,459,602	$3,482,036,898
8/3/2020	$5.06	$0.00	5.69%	62,489,164	$5.05	$5.06	$0.01	0.20%	728,459,602	$3,686,005,586
8/4/2020	$5.10	$0.00	0.79%	42,735,128	$5.09	$5.10	$0.01	0.20%	728,459,602	$3,715,143,970
8/5/2020	$5.00	$0.00	-1.98%	36,336,472	$4.99	$5.00	$0.01	0.20%	728,459,602	$3,642,298,010
8/6/2020	$5.00	$0.00	0.00%	30,262,580	$4.99	$5.00	$0.01	0.20%	728,459,602	$3,642,298,010
8/7/2020	$4.98	$0.00	-0.40%	21,405,341	$4.97	$4.98	$0.01	0.20%	728,459,602	$3,627,728,818
8/10/2020	$4.91	$0.00	-1.42%	21,177,600	$4.91	$4.92	$0.01	0.20%	728,459,602	$3,576,736,646
8/11/2020	$4.96	$0.00	1.01%	40,259,299	$4.96	$4.97	$0.01	0.20%	728,459,602	$3,613,159,626
8/12/2020	$5.05	$0.00	1.80%	21,697,774	$5.05	$5.06	$0.01	0.20%	728,459,602	$3,678,720,990
8/13/2020	$5.06	$0.00	0.20%	21,989,476	$5.05	$5.06	$0.01	0.20%	728,459,602	$3,686,005,586
8/14/2020	$5.00	$0.00	-1.19%	18,991,855	$4.99	$5.00	$0.01	0.20%	728,459,602	$3,642,298,010
8/17/2020	$5.07	$0.00	1.39%	24,050,162	$5.06	$5.07	$0.01	0.20%	728,459,602	$3,693,290,182
8/18/2020	$5.09	$0.00	0.39%	18,338,065	$5.08	$5.09	$0.01	0.20%	728,459,602	$3,707,859,374
8/19/2020	$5.04	$0.00	-0.99%	20,351,206	$5.03	$5.04	$0.01	0.20%	728,459,602	$3,671,436,394
8/20/2020	$5.05	$0.00	0.20%	15,366,376	$5.04	$5.05	$0.01	0.20%	728,459,602	$3,678,720,990
8/21/2020	$4.97	$0.00	-1.60%	15,015,135	$4.97	$4.98	$0.01	0.20%	728,459,602	$3,620,444,222
8/24/2020	$5.03	$0.00	1.20%	12,604,414	$5.02	$5.03	$0.01	0.20%	728,459,602	$3,664,151,798
8/25/2020	$5.04	$0.00	0.20%	13,587,397	$5.03	$5.04	$0.01	0.20%	728,459,602	$3,671,436,394
8/26/2020	$5.05	$0.00	0.20%	19,752,385	$5.04	$5.05	$0.01	0.20%	728,459,602	$3,678,720,990
8/27/2020	$5.01	$0.00	-0.80%	25,348,574	$5.01	$5.02	$0.01	0.20%	728,459,602	$3,649,582,606
8/28/2020	$4.97	$0.00	-0.80%	20,820,157	$4.97	$4.98	$0.01	0.20%	728,459,602	$3,620,444,222
8/31/2020	$4.90	$0.00	-1.42%	22,437,841	$4.90	$4.91	$0.01	0.20%	728,459,602	$3,569,452,050
9/1/2020	$4.73	$0.00	-3.53%	49,278,975	$4.72	$4.73	$0.01	0.21%	728,459,602	$3,445,613,917
9/2/2020	$4.78	$0.00	1.05%	31,895,627	$4.78	$4.79	$0.01	0.21%	728,459,602	$3,482,036,898
9/3/2020	$4.53	$0.00	-5.37%	63,168,166	$4.52	$4.53	$0.01	0.22%	728,459,602	$3,299,921,997
9/4/2020	$4.48	$0.00	-1.11%	45,584,048	$4.47	$4.48	$0.01	0.22%	728,459,602	$3,263,499,017
9/8/2020	$4.10	$0.00	-8.86%	67,144,062	$4.10	$4.11	$0.01	0.24%	728,459,602	$2,986,684,368
9/9/2020	$4.14	$0.00	0.97%	47,162,653	$4.13	$4.14	$0.01	0.24%	728,459,602	$3,015,822,752
9/10/2020	$4.10	$0.00	-0.97%	35,018,315	$4.09	$4.10	$0.01	0.24%	728,459,602	$2,986,684,368
9/11/2020	$4.10	$0.00	0.00%	27,316,148	$4.09	$4.10	$0.01	0.24%	728,459,602	$2,986,684,368
9/14/2020	$4.09	$0.00	-0.24%	21,317,994	$4.08	$4.09	$0.01	0.24%	728,459,602	$2,979,399,772
9/15/2020	$4.16	$0.00	1.70%	24,076,236	$4.15	$4.16	$0.01	0.24%	728,459,602	$3,030,391,944
9/16/2020	$4.13	$0.00	-0.72%	30,884,964	$4.12	$4.13	$0.01	0.24%	728,459,602	$3,008,538,156
9/17/2020	$4.14	$0.00	0.24%	28,414,554	$4.13	$4.14	$0.01	0.24%	728,459,602	$3,015,822,752
9/18/2020	$4.09	$0.00	-1.22%	20,339,371	$4.08	$4.09	$0.01	0.24%	728,459,602	$2,979,399,772
9/21/2020	$3.96	$0.00	-3.23%	29,189,482	$3.95	$3.96	$0.01	0.25%	728,459,602	$2,884,700,024
9/22/2020	$3.98	$0.00	0.50%	15,175,316	$3.97	$3.98	$0.01	0.25%	728,459,602	$2,899,269,216
9/23/2020	$3.88	$0.00	-2.54%	19,322,558	$3.87	$3.88	$0.01	0.26%	728,459,602	$2,826,423,256
9/24/2020	$3.84	$0.00	-1.04%	19,266,868	$3.83	$3.84	$0.01	0.26%	728,459,602	$2,797,284,872
9/25/2020	$3.78	$0.00	-1.57%	32,637,615	$3.78	$3.79	$0.01	0.26%	728,459,602	$2,753,577,296
9/28/2020	$3.90	$0.00	3.13%	28,025,479	$3.89	$3.90	$0.01	0.26%	728,459,602	$2,840,992,448
9/29/2020	$3.95	$0.00	1.27%	25,068,342	$3.95	$3.96	$0.01	0.25%	728,459,602	$2,877,415,428
9/30/2020	$3.91	$0.00	-1.02%	24,780,794	$3.90	$3.91	$0.01	0.26%	728,459,602	$2,848,277,044
10/1/2020	$3.87	$0.00	-1.03%	17,027,990	$3.87	$3.88	$0.01	0.26%	728,459,602	$2,819,138,660
10/2/2020	$3.82	$0.00	-1.30%	19,307,665	$3.81	$3.82	$0.01	0.26%	728,459,602	$2,782,715,680
10/5/2020	$3.93	$0.00	2.84%	15,811,376	$3.93	$3.94	$0.01	0.25%	728,459,602	$2,862,846,236
10/6/2020	$3.91	$0.00	-0.51%	23,824,323	$3.90	$3.91	$0.01	0.26%	728,459,602	$2,848,277,044
10/7/2020	$3.90	$0.00	-0.26%	15,216,504	$3.90	$3.91	$0.01	0.26%	728,459,602	$2,840,992,448

Exhibit-3g

NOK Market Efficiency Statistics

January 28, 2020 through January 27, 2021

Date	Closing Price	Dividend	Log Return	Volume	Closing Bid	Closing Ask	Closing Bid/Ask Spread	Average Bid/Ask Spread %	Outstanding Shares	Market Capitalization
	[a]	[b]	[b]	[c]	[d]	[e]			[f]	[g]
10/8/2020	$3.95	$0.00	1.27%	19,386,159	$3.95	$3.96	$0.01	0.25%	728,459,602	$2,877,415,428
10/9/2020	$4.03	$0.00	2.01%	35,552,878	$4.03	$4.04	$0.01	0.25%	728,459,602	$2,935,692,196
10/12/2020	$4.03	$0.00	0.00%	18,341,227	$4.03	$4.04	$0.01	0.25%	728,459,602	$2,935,692,196
10/13/2020	$4.04	$0.00	0.25%	19,771,400	$4.03	$4.04	$0.01	0.25%	728,459,602	$2,942,976,792
10/14/2020	$4.08	$0.00	0.99%	20,988,920	$4.07	$4.08	$0.01	0.25%	728,459,602	$2,972,115,176
10/15/2020	$4.04	$0.00	-0.99%	15,456,560	$4.03	$4.04	$0.01	0.25%	728,459,602	$2,942,976,792
10/16/2020	$4.03	$0.00	-0.25%	13,354,960	$4.02	$4.03	$0.01	0.25%	728,459,602	$2,935,692,196
10/19/2020	$4.18	$0.00	3.65%	36,642,481	$4.17	$4.18	$0.01	0.24%	728,459,602	$3,044,961,136
10/20/2020	$4.20	$0.00	0.48%	39,536,930	$4.19	$4.20	$0.01	0.24%	728,459,602	$3,059,530,328
10/21/2020	$4.28	$0.00	1.89%	43,146,649	$4.28	$4.29	$0.01	0.23%	728,459,602	$3,117,807,097
10/22/2020	$4.27	$0.00	-0.23%	33,773,224	$4.26	$4.27	$0.01	0.23%	728,459,602	$3,110,522,501
10/23/2020	$4.30	$0.00	0.70%	15,898,786	$4.30	$4.31	$0.01	0.23%	728,459,602	$3,132,376,289
10/26/2020	$4.23	$0.00	-1.64%	34,590,512	$4.22	$4.23	$0.01	0.24%	728,459,602	$3,081,384,116
10/27/2020	$4.24	$0.00	0.24%	24,062,183	$4.23	$4.24	$0.01	0.24%	728,459,602	$3,088,668,712
10/28/2020	$4.05	$0.00	-4.58%	47,238,647	$4.05	$4.06	$0.01	0.25%	728,459,602	$2,950,261,388
10/29/2020	$3.35	$0.00	-18.98%	149,132,957	$3.33	$3.34	$0.01	0.30%	728,459,602	$2,440,339,667
10/30/2020	$3.37	$0.00	0.60%	65,899,431	$3.36	$3.37	$0.01	0.30%	728,459,602	$2,454,908,859
11/2/2020	$3.27	$0.00	-3.01%	41,682,324	$3.26	$3.27	$0.01	0.31%	728,459,602	$2,382,062,899
11/3/2020	$3.39	$0.00	3.60%	52,419,275	$3.40	$3.41	$0.01	0.29%	728,459,602	$2,469,478,051
11/4/2020	$3.40	$0.00	0.29%	38,149,457	$3.40	$3.41	$0.01	0.29%	728,459,602	$2,476,762,647
11/5/2020	$3.54	$0.00	4.04%	43,167,613	$3.55	$3.56	$0.01	0.28%	728,459,602	$2,578,746,991
11/6/2020	$3.52	$0.00	-0.57%	29,258,041	$3.51	$3.52	$0.01	0.28%	728,459,602	$2,564,177,799
11/9/2020	$3.65	$0.00	3.63%	49,820,925	$3.65	$3.66	$0.01	0.27%	728,459,602	$2,658,877,547
11/10/2020	$3.67	$0.00	0.55%	37,387,851	$3.67	$3.68	$0.01	0.27%	728,459,602	$2,673,446,739
11/11/2020	$3.75	$0.00	2.16%	40,456,023	$3.75	$3.76	$0.01	0.27%	728,459,602	$2,731,723,508
11/12/2020	$3.75	$0.00	0.00%	46,795,312	$3.74	$3.75	$0.01	0.27%	728,459,602	$2,731,723,508
11/13/2020	$3.81	$0.00	1.59%	46,308,247	$3.81	$3.82	$0.01	0.26%	728,459,602	$2,775,431,084
11/16/2020	$3.90	$0.00	2.33%	37,591,796	$3.90	$3.91	$0.01	0.26%	728,459,602	$2,840,992,448
11/17/2020	$3.93	$0.00	0.77%	27,364,148	$3.92	$3.93	$0.01	0.25%	728,459,602	$2,862,846,236
11/18/2020	$3.94	$0.00	0.25%	28,103,602	$3.94	$3.95	$0.01	0.25%	728,459,602	$2,870,130,832
11/19/2020	$3.89	$0.00	-1.28%	30,776,721	$3.88	$3.89	$0.01	0.26%	728,459,602	$2,833,707,852
11/20/2020	$3.95	$0.00	1.53%	29,376,690	$3.95	$3.96	$0.01	0.25%	728,459,602	$2,877,415,428
11/23/2020	$3.97	$0.00	0.51%	32,393,647	$3.97	$3.98	$0.01	0.25%	728,459,602	$2,891,984,620
11/24/2020	$4.07	$0.00	2.49%	25,395,293	$4.08	$4.09	$0.01	0.24%	728,459,602	$2,964,830,580
11/25/2020	$4.13	$0.00	1.46%	16,995,786	$4.12	$4.13	$0.01	0.24%	728,459,602	$3,008,538,156
11/27/2020	$4.13	$0.00	0.00%	8,288,343	$4.13	$4.14	$0.01	0.24%	728,459,602	$3,008,538,156
11/30/2020	$4.03	$0.00	-2.45%	20,845,221	$4.02	$4.03	$0.01	0.25%	728,459,602	$2,935,692,196
12/1/2020	$4.06	$0.00	0.74%	20,169,266	$4.06	$4.07	$0.01	0.25%	728,459,602	$2,957,545,984
12/2/2020	$4.06	$0.00	0.00%	23,692,288	$4.05	$4.06	$0.01	0.25%	728,459,602	$2,957,545,984
12/3/2020	$4.02	$0.00	-0.99%	18,883,638	$4.02	$4.03	$0.01	0.25%	728,459,602	$2,928,407,600
12/4/2020	$4.03	$0.00	0.25%	19,651,545	$4.02	$4.03	$0.01	0.25%	728,459,602	$2,935,692,196
12/7/2020	$4.06	$0.00	0.74%	21,546,521	$4.06	$4.07	$0.01	0.25%	728,459,602	$2,957,545,984
12/8/2020	$4.22	$0.00	3.87%	35,820,041	$4.21	$4.22	$0.01	0.24%	728,459,602	$3,074,099,520
12/9/2020	$4.19	$0.00	-0.71%	31,808,830	$4.20	$4.21	$0.01	0.24%	728,459,602	$3,052,245,732
12/10/2020	$4.20	$0.00	0.24%	27,951,048	$4.19	$4.20	$0.01	0.24%	728,459,602	$3,059,530,328
12/11/2020	$4.06	$0.00	-3.39%	34,215,647	$4.05	$4.06	$0.01	0.25%	728,459,602	$2,957,545,984
12/14/2020	$4.00	$0.00	-1.49%	21,093,175	$3.99	$4.00	$0.01	0.25%	728,459,602	$2,913,838,408
12/15/2020	$4.10	$0.00	2.47%	18,757,009	$4.10	$4.11	$0.01	0.24%	728,459,602	$2,986,684,368
12/16/2020	$3.99	$0.00	-2.72%	19,877,690	$3.99	$4.00	$0.01	0.25%	728,459,602	$2,906,553,812
12/17/2020	$4.06	$0.00	1.74%	26,082,195	$4.05	$4.06	$0.01	0.25%	728,459,602	$2,957,545,984
12/18/2020	$4.00	$0.00	-1.49%	20,259,706	$3.99	$4.00	$0.01	0.25%	728,459,602	$2,913,838,408
12/21/2020	$3.90	$0.00	-2.53%	26,116,616	$3.89	$3.90	$0.01	0.26%	728,459,602	$2,840,992,448
12/22/2020	$3.88	$0.00	-0.51%	25,180,444	$3.87	$3.88	$0.01	0.26%	728,459,602	$2,826,423,256
12/23/2020	$3.88	$0.00	0.00%	27,033,451	$3.87	$3.88	$0.01	0.26%	728,459,602	$2,826,423,256
12/24/2020	$3.89	$0.00	0.26%	7,298,750	$3.89	$3.90	$0.01	0.26%	728,459,602	$2,833,707,852
12/28/2020	$3.90	$0.00	0.26%	18,694,713	$3.89	$3.90	$0.01	0.26%	728,459,602	$2,840,992,448
12/29/2020	$3.93	$0.00	0.77%	19,875,440	$3.93	$3.94	$0.01	0.25%	728,459,602	$2,862,846,236
12/30/2020	$3.89	$0.00	-1.02%	17,464,606	$3.88	$3.89	$0.01	0.26%	728,459,602	$2,833,707,852
12/31/2020	$3.91	$0.00	0.51%	17,088,862	$3.90	$3.91	$0.01	0.26%	770,246,104	$3,011,662,267

Exhibit-3g

NOK Market Efficiency Statistics

January 28, 2020 through January 27, 2021

Date	Closing Price	Dividend	Log Return	Volume	Closing Bid	Closing Ask	Closing Bid/Ask Spread	Average Bid/Ask Spread %	Outstanding Shares	Market Capitalization
	[a]	[b]	[b]	[c]	[d]	[e]			[f]	[g]
1/4/2021	$3.89	$0.00	-0.51%	30,281,398	$3.88	$3.89	$0.01	0.26%	770,246,104	$2,996,257,345
1/5/2021	$4.04	$0.00	3.78%	38,446,227	$4.03	$4.04	$0.01	0.25%	770,246,104	$3,111,794,260
1/6/2021	$4.04	$0.00	0.00%	37,467,360	$4.04	$4.05	$0.01	0.25%	770,246,104	$3,111,794,260
1/7/2021	$3.99	$0.00	-1.25%	25,317,959	$3.99	$4.00	$0.01	0.25%	770,246,104	$3,073,281,955
1/8/2021	$3.93	$0.00	-1.52%	23,978,662	$3.93	$3.94	$0.01	0.25%	770,246,104	$3,027,067,189
1/11/2021	$3.87	$0.00	-1.54%	37,059,417	$3.87	$3.88	$0.01	0.26%	770,246,104	$2,980,852,422
1/12/2021	$4.01	$0.00	3.55%	26,064,982	$4.01	$4.02	$0.01	0.25%	770,246,104	$3,088,686,877
1/13/2021	$3.98	$0.00	-0.75%	33,763,393	$3.97	$3.98	$0.01	0.25%	770,246,104	$3,065,579,494
1/14/2021	$4.09	$0.00	2.73%	93,198,577	$4.08	$4.09	$0.01	0.24%	770,246,104	$3,150,306,565
1/15/2021	$4.08	$0.00	-0.24%	36,639,348	$4.09	$4.10	$0.01	0.24%	770,246,104	$3,142,604,104
1/19/2021	$4.13	$0.00	1.22%	40,539,361	$4.12	$4.13	$0.01	0.24%	770,246,104	$3,181,116,410
1/20/2021	$4.20	$0.00	1.68%	43,924,067	$4.20	$4.21	$0.01	0.24%	770,246,104	$3,235,033,637
1/21/2021	$4.22	$0.00	0.48%	22,054,873	$4.22	$4.23	$0.01	0.24%	770,246,104	$3,250,438,559
1/22/2021	$4.20	$0.00	-0.48%	29,126,724	$4.19	$4.20	$0.01	0.24%	770,246,104	$3,235,033,637
1/25/2021	$4.85	$0.00	14.39%	296,379,275	$4.84	$4.85	$0.01	0.21%	770,246,104	$3,735,693,604
1/26/2021	$4.73	$0.00	-2.51%	379,387,253	$4.72	$4.73	$0.01	0.21%	770,246,104	$3,643,264,072
1/27/2021	$6.55	$0.00	32.55%	1,144,059,000	$6.61	$6.63	$0.02	0.30%	770,246,104	$5,045,111,981
Average	$4.00	$0.00	0.20%	38,965,239	$4.00	$4.01	$0.01	0.26%	731,432,555	$2,929.2 million
Median	$4.03	$0.00	0.23%	27,448,427	$4.03	$4.04	$0.01	0.25%	728,459,602	$2,957.5 million
High	$6.55	$0.00	32.55%	1,144,059,000	$6.61	$6.63	$0.02	0.41%	770,246,104	$5,045.1 million
Low	$2.42	$0.00	-18.98%	7,298,750	$2.41	$2.42	$0.01	0.20%	728,459,602	$1,762.9 million

Source: CRSP & SEC Filings.

Exhibit-3h

TR Market Efficiency Statistics

January 28, 2020 through January 27, 2021

Date	Closing Price	Dividend	Log Return	Volume	Closing Bid	Closing Ask	Closing Bid/Ask Spread	Average Bid/Ask Spread %	Outstanding Shares	Market Capitalization
	[a]	[b]	[b]	[c]	[d]	[e]			[f]	[g]
1/28/2020	$34.12	$0.00	-1.48%	103,161	$34.11	$34.12	$0.01	0.03%	39,019,205	$1,331,335,275
1/29/2020	$33.73	$0.00	-1.15%	92,466	$33.71	$33.73	$0.02	0.06%	39,019,205	$1,316,117,785
1/30/2020	$34.06	$0.00	0.97%	96,409	$34.06	$34.10	$0.04	0.12%	39,019,205	$1,328,994,122
1/31/2020	$34.11	$0.00	0.15%	176,717	$34.10	$34.11	$0.01	0.03%	39,019,205	$1,330,945,083
2/3/2020	$34.43	$0.00	0.93%	139,636	$34.41	$34.42	$0.01	0.03%	39,019,205	$1,343,431,228
2/4/2020	$34.08	$0.00	-1.02%	77,987	$34.08	$34.09	$0.01	0.03%	39,019,205	$1,329,774,506
2/5/2020	$34.18	$0.00	0.29%	129,753	$34.19	$34.20	$0.01	0.03%	39,019,205	$1,333,676,427
2/6/2020	$33.64	$0.00	-1.59%	89,603	$33.64	$33.66	$0.02	0.06%	39,019,205	$1,312,606,056
2/7/2020	$33.06	$0.00	-1.74%	123,999	$33.06	$33.08	$0.02	0.06%	39,019,205	$1,289,974,917
2/10/2020	$33.69	$0.00	1.89%	86,037	$33.70	$33.71	$0.01	0.03%	39,019,205	$1,314,557,016
2/11/2020	$33.14	$0.00	-1.65%	79,297	$33.14	$33.15	$0.01	0.03%	39,019,205	$1,293,096,454
2/12/2020	$33.37	$0.00	0.69%	108,553	$33.35	$33.36	$0.01	0.03%	39,019,205	$1,302,070,871
2/13/2020	$33.91	$0.00	1.61%	89,126	$33.92	$33.96	$0.04	0.12%	39,019,205	$1,323,141,242
2/14/2020	$34.05	$0.00	0.41%	86,135	$34.00	$34.05	$0.05	0.15%	39,019,205	$1,328,603,930
2/18/2020	$34.48	$0.00	1.25%	112,140	$34.48	$34.50	$0.02	0.06%	39,019,205	$1,345,382,188
2/19/2020	$34.25	$0.00	-0.67%	94,741	$34.24	$34.25	$0.01	0.03%	39,019,205	$1,336,407,771
2/20/2020	$35.21	$0.00	2.76%	94,598	$35.20	$35.21	$0.01	0.03%	39,019,205	$1,373,866,208
2/21/2020	$35.02	$0.00	-0.54%	261,302	$35.01	$35.02	$0.01	0.03%	38,788,652	$1,358,378,593
2/24/2020	$34.65	$0.00	-1.06%	68,845	$34.65	$34.66	$0.01	0.03%	38,788,652	$1,344,026,792
2/25/2020	$34.49	$0.00	-0.46%	104,161	$34.46	$34.49	$0.03	0.09%	38,788,652	$1,337,820,607
2/26/2020	$34.18	$0.00	-0.90%	104,205	$34.18	$34.19	$0.01	0.03%	38,788,652	$1,325,796,125
2/27/2020	$33.90	$0.00	-0.82%	160,824	$33.89	$33.90	$0.01	0.03%	38,788,652	$1,314,935,303
2/28/2020	$32.08	$0.00	-5.52%	193,945	$32.09	$32.22	$0 13	0.40%	38,788,652	$1,244,339,956
3/2/2020	$32.57	$0.09	1.79%	128,795	$32.56	$32.60	$0.04	0.12%	38,788,652	$1,263,346,396
3/3/2020	$32.60	$0.00	0.09%	128,197	$32.58	$32.60	$0.02	0.06%	38,788,652	$1,264,510,055
3/4/2020	$34.05	$0.00	4.35%	156,205	$34.05	$34.06	$0.01	0.03%	38,788,652	$1,320,753,601
3/5/2020	$34.18	$0.00	0.38%	116,415	$34.18	$34.19	$0.01	0.03%	38,788,652	$1,325,796,125
3/6/2020	$33.45	$0.00	-2.16%	148,322	$33.41	$33.45	$0.04	0.12%	38,788,652	$1,297,480,409
3/9/2020	$32.99	$0.00	-1.38%	157,100	$32.95	$32.99	$0.04	0.12%	38,788,652	$1,279,637,629
3/10/2020	$34.70	$0.00	5.05%	263,478	$34.67	$34.68	$0.01	0.03%	38,788,652	$1,345,966,224
3/11/2020	$33.14	$0.00	-4.60%	274,459	$33.14	$33.15	$0.01	0.03%	38,788,652	$1,285,455,927
3/12/2020	$32.00	$0.00	-3.50%	460,664	$31.94	$32.00	$0.06	0.19%	38,788,652	$1,241,236,864
3/13/2020	$34.42	$0.00	7.29%	264,675	$34.42	$34.43	$0.01	0.03%	38,788,652	$1,335,105,402
3/16/2020	$33.42	$0.00	-2.95%	234,911	$33.41	$33.42	$0.01	0.03%	38,788,652	$1,296,316,750
3/17/2020	$35.49	$0.00	6.01%	344,255	$35.45	$35.51	$0.06	0.17%	38,788,652	$1,376,609,259
3/18/2020	$36.98	$0.00	4.11%	320,127	$36.97	$36.98	$0.01	0.03%	38,788,652	$1,434,404,351
3/19/2020	$35.55	$0.00	-3.94%	611,777	$35.50	$35.51	$0.01	0.03%	38,788,652	$1,378,936,579
3/20/2020	$35.00	$0.00	-1.56%	732,984	$34.49	$35.02	$0 53	1.52%	38,788,652	$1,357,602,820
3/23/2020	$35.62	$0.00	1.76%	295,106	$35.61	$35.62	$0.01	0.03%	38,788,652	$1,381,651,784
3/24/2020	$34.66	$0.00	-2.73%	296,310	$34.43	$34.44	$0.01	0.03%	38,788,652	$1,344,414,678
3/25/2020	$34.37	$0.00	-0.84%	254,965	$34.24	$34.25	$0.01	0.03%	38,788,652	$1,333,165,969
3/26/2020	$34.99	$0.00	1.79%	223,156	$34.90	$34.97	$0.07	0.20%	38,788,652	$1,357,214,933
3/27/2020	$36.33	$0.00	3.76%	227,083	$36.33	$36.34	$0.01	0.03%	38,788,652	$1,409,191,727
3/30/2020	$37.54	$0.00	3.28%	265,837	$37.52	$37.53	$0.01	0.03%	38,788,652	$1,456,125,996
3/31/2020	$35.96	$0.00	-4.30%	326,235	$35.93	$36.05	$0 12	0.33%	39,769,401	$1,430,107,660
4/1/2020	$35.90	$0.00	-0.17%	283,125	$35.81	$35.82	$0.01	0.03%	39,769,401	$1,427,721,496
4/2/2020	$36.59	$0.00	1.90%	181,052	$36.63	$36.66	$0.03	0.08%	39,769,401	$1,455,162,383
4/3/2020	$36.74	$0.00	0.41%	237,711	$36.68	$36.69	$0.01	0.03%	39,769,401	$1,461,127,793
4/6/2020	$37.85	$0.00	2.98%	248,210	$37.75	$37.76	$0.01	0.03%	39,769,401	$1,505,271,828
4/7/2020	$37.74	$0.00	-0.29%	179,138	$37.73	$37.79	$0.06	0.16%	39,769,401	$1,500,897,194
4/8/2020	$37.03	$0.00	-1.90%	152,052	$37.05	$37.06	$0.01	0.03%	39,769,401	$1,472,660,919
4/9/2020	$37.57	$0.00	1.45%	282,959	$37.55	$37.56	$0.01	0.03%	39,769,401	$1,494,136,396
4/13/2020	$37.00	$0.00	-1.53%	232,611	$37.05	$37.06	$0.01	0.03%	39,769,401	$1,471,467,837
4/14/2020	$37.00	$0.00	0.00%	195,873	$37.05	$37.06	$0.01	0.03%	39,769,401	$1,471,467,837
4/15/2020	$35.94	$0.00	-2.91%	208,780	$35.94	$35.96	$0.02	0.06%	39,769,401	$1,429,312,272
4/16/2020	$35.83	$0.00	-0.31%	184,810	$35.89	$35.90	$0.01	0.03%	39,769,401	$1,424,937,638
4/17/2020	$36.04	$0.00	0.58%	193,935	$36.04	$36.07	$0.03	0.08%	39,769,401	$1,433,289,212
4/20/2020	$35.29	$0.00	-2.10%	195,110	$35.28	$35.29	$0.01	0.03%	39,769,401	$1,403,462,161
4/21/2020	$35.78	$0.00	1.38%	184,099	$35.73	$35.74	$0.01	0.03%	39,769,401	$1,422,949,168

Exhibit-3h

TR Market Efficiency Statistics

January 28, 2020 through January 27, 2021

Date	Closing Price	Dividend	Log Return	Volume	Closing Bid	Closing Ask	Closing Bid/Ask Spread	Average Bid/Ask Spread %	Outstanding Shares	Market Capitalization
	[a]	[b]	[b]	[c]	[d]	[e]			[f]	[g]
4/22/2020	$36.24	$0.00	1.28%	159,987	$36.19	$36.20	$0.01	0.03%	39,769,401	$1,441,243,092
4/23/2020	$35.99	$0.00	-0.69%	203,451	$35.95	$35.96	$0.01	0.03%	39,769,401	$1,431,300,742
4/24/2020	$35.40	$0.00	-1.65%	174,457	$35.39	$35.40	$0.01	0.03%	39,769,401	$1,407,836,795
4/27/2020	$35.32	$0.00	-0.23%	194,337	$35.28	$35.29	$0.01	0.03%	39,769,401	$1,404,655,243
4/28/2020	$35.53	$0.00	0.59%	195,507	$35.53	$35.54	$0.01	0.03%	39,769,401	$1,413,006,818
4/29/2020	$35.09	$0.00	-1.25%	253,562	$35.08	$35.09	$0.01	0.03%	39,769,401	$1,395,508,281
4/30/2020	$35.13	$0.00	0.11%	505,592	$35.18	$35.19	$0.01	0.03%	39,769,401	$1,397,099,057
5/1/2020	$34.55	$0.00	-1.66%	272,282	$34.52	$34.53	$0.01	0.03%	39,769,401	$1,374,032,805
5/4/2020	$35.24	$0.00	1.98%	228,442	$35.22	$35.23	$0.01	0.03%	39,769,401	$1,401,473,691
5/5/2020	$36.00	$0.00	2.13%	273,510	$36.00	$36.01	$0.01	0.03%	39,769,401	$1,431,698,436
5/6/2020	$36.73	$0.00	2.01%	175,323	$36.74	$36.75	$0.01	0.03%	39,769,401	$1,460,730,099
5/7/2020	$35.35	$0.00	-3.83%	182,784	$35.35	$35.36	$0.01	0.03%	39,769,401	$1,405,848,325
5/8/2020	$36.42	$0.00	2.98%	171,747	$36.41	$36.42	$0.01	0.03%	39,769,401	$1,448,401,584
5/11/2020	$36.58	$0.00	0.44%	186,083	$36.58	$36.59	$0.01	0.03%	39,769,401	$1,454,764,689
5/12/2020	$36.31	$0.00	-0.74%	211,952	$36.32	$36.33	$0.01	0.03%	39,769,401	$1,444,026,950
5/13/2020	$35.53	$0.00	-2.17%	168,484	$35.55	$35.56	$0.01	0.03%	39,769,401	$1,413,006,818
5/14/2020	$34.03	$0.00	-4.31%	269,601	$34.02	$34.03	$0.01	0.03%	39,769,401	$1,353,352,716
5/15/2020	$33.43	$0.00	-1.78%	370,612	$33.46	$33.47	$0.01	0.03%	39,769,401	$1,329,491,075
5/18/2020	$34.31	$0.00	2.60%	244,214	$34.29	$34.30	$0.01	0.03%	39,769,401	$1,364,488,148
5/19/2020	$32.90	$0.00	-4.20%	187,282	$32.89	$32.90	$0.01	0.03%	39,769,401	$1,308,413,293
5/20/2020	$33.90	$0.00	2.99%	237,234	$33.90	$33.92	$0.02	0.06%	39,769,401	$1,348,182,694
5/21/2020	$34.23	$0.00	0.97%	231,798	$34.22	$34.23	$0.01	0.03%	39,769,401	$1,361,306,596
5/22/2020	$33.90	$0.00	-0.97%	147,279	$33.90	$33.91	$0.01	0.03%	39,769,401	$1,348,182,694
5/26/2020	$34.46	$0.00	1.64%	152,592	$34.45	$34.46	$0.01	0.03%	39,769,401	$1,370,453,558
5/27/2020	$35.09	$0.00	1.81%	355,339	$35.08	$35.09	$0.01	0.03%	39,769,401	$1,395,508,281
5/28/2020	$35.53	$0.00	1.25%	146,420	$35.52	$35.53	$0.01	0.03%	39,769,401	$1,413,006,818
5/29/2020	$35.62	$0.00	0.25%	160,815	$35.61	$35.62	$0.01	0.03%	39,769,401	$1,416,586,064
6/1/2020	$35.50	$0.00	-0.34%	186,509	$35.50	$35.51	$0.01	0.03%	39,769,401	$1,411,813,736
6/2/2020	$35.27	$0.00	-0.65%	168,680	$35.27	$35.28	$0.01	0.03%	39,769,401	$1,402,666,773
6/3/2020	$35.69	$0.00	1.18%	223,352	$35.67	$35.69	$0.02	0.06%	39,769,401	$1,419,369,922
6/4/2020	$35.46	$0.00	-0.65%	182,983	$35.46	$35.47	$0.01	0.03%	39,769,401	$1,410,222,959
6/5/2020	$35.77	$0.00	0.87%	234,910	$35.77	$35.78	$0.01	0.03%	39,769,401	$1,422,551,474
6/8/2020	$36.40	$0.00	1.75%	142,152	$36.39	$36.40	$0.01	0.03%	39,769,401	$1,447,606,196
6/9/2020	$36.55	$0.00	0.41%	164,636	$36.55	$36.58	$0.03	0.08%	39,769,401	$1,453,571,607
6/10/2020	$36.97	$0.00	1.14%	167,159	$36.94	$36.95	$0.01	0.03%	39,769,401	$1,470,274,755
6/11/2020	$35.69	$0.00	-3.52%	218,865	$35.67	$35.68	$0.01	0.03%	39,769,401	$1,419,369,922
6/12/2020	$34.23	$0.09	-3.91%	267,618	$34.23	$34.24	$0.01	0.03%	39,769,401	$1,361,306,596
6/15/2020	$35.03	$0.00	2.31%	229,227	$35.02	$35.04	$0.02	0.06%	39,769,401	$1,393,122,117
6/16/2020	$35.56	$0.00	1.50%	172,627	$35.56	$35.57	$0.01	0.03%	39,769,401	$1,414,199,900
6/17/2020	$35.60	$0.00	0.11%	207,221	$35.64	$35.65	$0.01	0.03%	39,769,401	$1,415,790,676
6/18/2020	$35.48	$0.00	-0.34%	175,503	$35.47	$35.48	$0.01	0.03%	39,769,401	$1,411,018,347
6/19/2020	$35.30	$0.00	-0.51%	288,168	$35.27	$35.28	$0.01	0.03%	39,769,401	$1,403,859,855
6/22/2020	$34.60	$0.00	-2.00%	171,640	$34.59	$34.60	$0.01	0.03%	39,769,401	$1,376,021,275
6/23/2020	$34.19	$0.00	-1.19%	188,169	$34.17	$34.19	$0.02	0.06%	39,769,401	$1,359,715,820
6/24/2020	$33.72	$0.00	-1.38%	245,957	$33.71	$33.72	$0.01	0.03%	39,769,401	$1,341,024,202
6/25/2020	$33.41	$0.00	-0.92%	218,362	$33.40	$33.41	$0.01	0.03%	39,769,401	$1,328,695,687
6/26/2020	$32.71	$0.00	-2.12%	649,107	$32.68	$32.69	$0.01	0.03%	39,769,401	$1,300,857,107
6/29/2020	$33.57	$0.00	2.60%	152,135	$33.56	$33.57	$0.01	0.03%	39,769,401	$1,335,058,792
6/30/2020	$34.27	$0.00	2.06%	300,714	$34.26	$34.27	$0.01	0.03%	39,663,934	$1,359,283,018
7/1/2020	$34.18	$0.00	-0.26%	153,795	$34.17	$34.18	$0.01	0.03%	39,663,934	$1,355,713,264
7/2/2020	$34.37	$0.00	0.55%	109,998	$34.40	$34.41	$0.01	0.03%	39,663,934	$1,363,249,412
7/6/2020	$34.07	$0.00	-0.88%	152,717	$34.07	$34.08	$0.01	0.03%	39,663,934	$1,351,350,231
7/7/2020	$33.86	$0.00	-0.62%	148,451	$33.86	$33.87	$0.01	0.03%	39,663,934	$1,343,020,805
7/8/2020	$33.47	$0.00	-1.16%	168,544	$33.46	$33.47	$0.01	0.03%	39,663,934	$1,327,551,871
7/9/2020	$32.86	$0.00	-1.84%	157,217	$32.86	$32.87	$0.01	0.03%	39,663,934	$1,303,356,871
7/10/2020	$33.81	$0.00	2.85%	599,553	$33.80	$33.81	$0.01	0.03%	39,663,934	$1,341,037,609
7/13/2020	$33.28	$0.00	-1.58%	504,721	$33.27	$33.28	$0.01	0.03%	39,663,934	$1,320,015,724
7/14/2020	$34.13	$0.00	2.52%	179,129	$34.12	$34.13	$0.01	0.03%	39,663,934	$1,353,730,067
7/15/2020	$34.26	$0.00	0.38%	163,400	$34.26	$34.27	$0.01	0.03%	39,663,934	$1,358,886,379

Exhibit-3h

TR Market Efficiency Statistics

January 28, 2020 through January 27, 2021

Date	Closing Price [a]	Dividend [b]	Log Return [b]	Volume [c]	Closing Bid [d]	Closing Ask [e]	Closing Bid/Ask Spread	Average Bid/Ask Spread %	Outstanding Shares [f]	Market Capitalization [g]
7/16/2020	$33.99	$0.00	-0.79%	134,775	$33.99	$34.01	$0.02	0.06%	39,663,934	$1,348,177,117
7/17/2020	$33.83	$0.00	-0.47%	130,333	$33.83	$33.84	$0.01	0.03%	39,663,934	$1,341,830,887
7/20/2020	$33.44	$0.00	-1.16%	209,357	$33.45	$33.46	$0.01	0.03%	39,663,934	$1,326,361,953
7/21/2020	$33.04	$0.00	-1.20%	176,618	$33.04	$33.05	$0.01	0.03%	39,663,934	$1,310,496,379
7/22/2020	$32.31	$0.00	-2.23%	325,501	$32.31	$32.33	$0.02	0.06%	39,663,934	$1,281,541,708
7/23/2020	$32.38	$0.00	0.22%	328,260	$32.38	$32.40	$0.02	0.06%	39,663,934	$1,284,318,183
7/24/2020	$30.92	$0.00	-4.61%	503,889	$30.91	$30.92	$0.01	0.03%	39,663,934	$1,226,408,839
7/27/2020	$31.12	$0.00	0.64%	444,759	$31.12	$31.14	$0.02	0.06%	39,663,934	$1,234,341,626
7/28/2020	$31.29	$0.00	0.54%	353,329	$31.29	$31.30	$0.01	0.03%	39,663,934	$1,241,084,495
7/29/2020	$31.59	$0.00	0.95%	295,107	$31.59	$31.60	$0.01	0.03%	39,663,934	$1,252,983,675
7/30/2020	$31.30	$0.00	-0.92%	188,031	$31.29	$31.30	$0.01	0.03%	39,663,934	$1,241,481,134
7/31/2020	$31.70	$0.00	1.27%	409,948	$31.69	$31.70	$0.01	0.03%	39,663,934	$1,257,346,708
8/3/2020	$31.57	$0.00	-0.41%	409,070	$31.55	$31.56	$0.01	0.03%	39,663,934	$1,252,190,396
8/4/2020	$31.75	$0.00	0.57%	253,095	$31.74	$31.75	$0.01	0.03%	39,663,934	$1,259,329,905
8/5/2020	$31.05	$0.00	-2.23%	241,934	$31.03	$31.05	$0.02	0.06%	39,663,934	$1,231,565,151
8/6/2020	$30.85	$0.00	-0.65%	185,863	$30.84	$30.85	$0.01	0.03%	39,663,934	$1,223,632,364
8/7/2020	$31.54	$0.00	2.21%	282,443	$31.54	$31.56	$0.02	0.06%	39,663,934	$1,251,000,478
8/10/2020	$31.22	$0.00	-1.02%	253,371	$31.22	$31.23	$0.01	0.03%	39,663,934	$1,238,308,019
8/11/2020	$31.46	$0.00	0.77%	235,440	$31.46	$31.47	$0.01	0.03%	39,663,934	$1,247,827,364
8/12/2020	$32.23	$0.00	2.42%	270,880	$32.22	$32.23	$0.01	0.03%	39,663,934	$1,278,368,593
8/13/2020	$32.31	$0.00	0.25%	122,937	$32.31	$32.32	$0.01	0.03%	39,663,934	$1,281,541,708
8/14/2020	$32.29	$0.00	-0.06%	173,291	$32.29	$32.30	$0.01	0.03%	39,663,934	$1,280,748,429
8/17/2020	$32.70	$0.00	1.26%	149,266	$32.69	$32.70	$0.01	0.03%	39,663,934	$1,297,010,642
8/18/2020	$32.17	$0.00	-1.63%	187,978	$32.17	$32.18	$0.01	0.03%	39,663,934	$1,275,988,757
8/19/2020	$31.97	$0.00	-0.62%	134,067	$31.97	$31.98	$0.01	0.03%	39,663,934	$1,268,055,970
8/20/2020	$31.90	$0.00	-0.22%	205,403	$31.90	$31.91	$0.01	0.03%	39,663,934	$1,265,279,495
8/21/2020	$31.93	$0.00	0.09%	418,610	$31.93	$31.94	$0.01	0.03%	39,663,934	$1,266,469,413
8/24/2020	$32.39	$0.00	1.43%	137,697	$32.39	$32.40	$0.01	0.03%	39,663,934	$1,284,714,822
8/25/2020	$32.62	$0.00	0.71%	185,197	$32.62	$32.63	$0.01	0.03%	39,663,934	$1,293,837,527
8/26/2020	$32.63	$0.00	0.03%	148,059	$32.61	$32.63	$0.02	0.06%	39,663,934	$1,294,234,166
8/27/2020	$32.48	$0.00	-0.46%	141,690	$32.48	$32.49	$0.01	0.03%	39,663,934	$1,288,284,576
8/28/2020	$32.13	$0.00	-1.08%	121,135	$32.13	$32.14	$0.01	0.03%	39,663,934	$1,274,402,199
8/31/2020	$31.99	$0.00	-0.44%	206,840	$31.98	$31.99	$0.01	0.03%	39,663,934	$1,268,849,249
9/1/2020	$31.37	$0.00	-1.96%	210,316	$31.37	$31.38	$0.01	0.03%	39,663,934	$1,244,257,610
9/2/2020	$31.85	$0.00	1.52%	239,223	$31.84	$31.85	$0.01	0.03%	39,663,934	$1,263,296,298
9/3/2020	$31.64	$0.00	-0.66%	139,183	$31.63	$31.64	$0.01	0.03%	39,663,934	$1,254,966,872
9/4/2020	$31.85	$0.00	0.66%	164,538	$31.83	$31.85	$0.02	0.06%	39,663,934	$1,263,296,298
9/8/2020	$31.17	$0.00	-2.16%	152,780	$31.17	$31.18	$0.01	0.03%	39,663,934	$1,236,324,823
9/9/2020	$31.22	$0.00	0.16%	140,739	$31.22	$31.23	$0.01	0.03%	39,663,934	$1,238,308,019
9/10/2020	$30.61	$0.00	-1.97%	155,024	$30.61	$30.62	$0.01	0.03%	39,663,934	$1,214,113,020
9/11/2020	$30.47	$0.00	-0.46%	104,190	$30.46	$30.47	$0.01	0.03%	39,663,934	$1,208,560,069
9/14/2020	$30.85	$0.00	1.24%	138,451	$30.84	$30.85	$0.01	0.03%	39,663,934	$1,223,632,364
9/15/2020	$30.64	$0.00	-0.68%	104,004	$30.62	$30.64	$0.02	0.07%	39,663,934	$1,215,302,938
9/16/2020	$30.58	$0.00	-0.20%	131,492	$30.58	$30.59	$0.01	0.03%	39,663,934	$1,212,923,102
9/17/2020	$30.36	$0.00	-0.72%	187,332	$30.35	$30.36	$0.01	0.03%	39,663,934	$1,204,197,036
9/18/2020	$30.21	$0.00	-0.50%	357,130	$30.20	$30.21	$0.01	0.03%	39,663,934	$1,198,247,446
9/21/2020	$29.71	$0.00	-1.67%	251,579	$29.70	$29.71	$0.01	0.03%	39,663,934	$1,178,415,479
9/22/2020	$29.65	$0.00	-0.20%	232,658	$29.64	$29.65	$0.01	0.03%	39,663,934	$1,176,035,643
9/23/2020	$29.07	$0.00	-1.98%	147,669	$29.06	$29.07	$0.01	0.03%	39,663,934	$1,153,030,561
9/24/2020	$30.22	$0.00	3.88%	220,594	$30.21	$30.22	$0.01	0.03%	39,663,934	$1,198,644,085
9/25/2020	$30.48	$0.00	0.86%	124,094	$30.47	$30.48	$0.01	0.03%	39,663,934	$1,208,956,708
9/28/2020	$30.48	$0.00	0.00%	169,470	$30.47	$30.48	$0.01	0.03%	39,663,934	$1,208,956,708
9/29/2020	$30.63	$0.00	0.49%	133,841	$30.62	$30.63	$0.01	0.03%	39,663,934	$1,214,906,298
9/30/2020	$30.90	$0.00	0.88%	209,838	$30.87	$30.92	$0.05	0.16%	39,336,109	$1,215,485,768
10/1/2020	$31.13	$0.00	0.74%	178,415	$31.11	$31.13	$0.02	0.06%	39,336,109	$1,224,533,073
10/2/2020	$31.33	$0.09	0.93%	137,866	$31.32	$31.33	$0.01	0.03%	39,336,109	$1,232,400,295
10/5/2020	$31.32	$0.00	-0.03%	102,853	$31.32	$31.33	$0.01	0.03%	39,336,109	$1,232,006,934
10/6/2020	$31.23	$0.00	-0.29%	127,747	$31.23	$31.24	$0.01	0.03%	39,336,109	$1,228,466,684
10/7/2020	$31.46	$0.00	0.73%	143,833	$31.43	$31.46	$0.03	0.10%	39,336,109	$1,237,513,989

Exhibit-3h

TR Market Efficiency Statistics

January 28, 2020 through January 27, 2021

Date	Closing Price [a]	Dividend [b]	Log Return [b]	Volume [c]	Closing Bid [d]	Closing Ask [e]	Closing Bid/Ask Spread	Average Bid/Ask Spread %	Outstanding Shares [f]	Market Capitalization [g]
10/8/2020	$31.64	$0.00	0.57%	214,293	$31.63	$31.64	$0.01	0.03%	39,336,109	$1,244,594,489
10/9/2020	$31.96	$0.00	1.01%	118,208	$31.96	$31.97	$0.01	0.03%	39,336,109	$1,257,182,044
10/12/2020	$32.15	$0.00	0.59%	139,703	$32.14	$32.15	$0.01	0.03%	39,336,109	$1,264,655,904
10/13/2020	$31.50	$0.00	-2.04%	171,595	$31.49	$31.50	$0.01	0.03%	39,336,109	$1,239,087,434
10/14/2020	$30.97	$0.00	-1.70%	126,547	$30.97	$30.99	$0.02	0.06%	39,336,109	$1,218,239,296
10/15/2020	$31.22	$0.00	0.80%	238,624	$31.21	$31.22	$0.01	0.03%	39,336,109	$1,228,073,323
10/16/2020	$30.94	$0.00	-0.90%	129,269	$30.94	$30.95	$0.01	0.03%	39,336,109	$1,217,059,212
10/19/2020	$31.06	$0.00	0.39%	191,276	$31.06	$31.07	$0.01	0.03%	39,336,109	$1,221,779,546
10/20/2020	$31.16	$0.00	0.32%	165,522	$31.15	$31.16	$0.01	0.03%	39,336,109	$1,225,713,156
10/21/2020	$30.36	$0.00	-2.60%	135,816	$30.37	$30.38	$0.01	0.03%	39,336,109	$1,194,244,269
10/22/2020	$30.43	$0.00	0.23%	154,580	$30.43	$30.44	$0.01	0.03%	39,336,109	$1,196,997,797
10/23/2020	$30.56	$0.00	0.43%	136,299	$30.53	$30.56	$0.03	0.10%	39,336,109	$1,202,111,491
10/26/2020	$30.32	$0.00	-0.79%	198,210	$30.32	$30.33	$0.01	0.03%	39,336,109	$1,192,670,825
10/27/2020	$30.13	$0.00	-0.63%	176,317	$30.13	$30.14	$0.01	0.03%	39,336,109	$1,185,196,964
10/28/2020	$29.88	$0.00	-0.83%	203,021	$29.87	$29.91	$0.04	0.13%	39,336,109	$1,175,362,937
10/29/2020	$30.14	$0.00	0.87%	241,108	$30.14	$30.15	$0.01	0.03%	39,336,109	$1,185,590,325
10/30/2020	$29.88	$0.00	-0.87%	186,917	$29.86	$29.87	$0.01	0.03%	39,336,109	$1,175,362,937
11/2/2020	$29.78	$0.00	-0.34%	170,419	$29.78	$29.79	$0.01	0.03%	39,336,109	$1,171,429,326
11/3/2020	$29.68	$0.00	-0.34%	128,330	$29.69	$29.70	$0.01	0.03%	39,336,109	$1,167,495,715
11/4/2020	$29.57	$0.00	-0.37%	160,507	$29.55	$29.57	$0.02	0.07%	39,336,109	$1,163,168,743
11/5/2020	$29.88	$0.00	1.04%	142,428	$29.86	$29.88	$0.02	0.07%	39,336,109	$1,175,362,937
11/6/2020	$30.49	$0.00	2.02%	109,632	$30.49	$30.52	$0.03	0.10%	39,336,109	$1,199,357,963
11/9/2020	$29.42	$0.00	-3.57%	225,716	$29.45	$29.46	$0.01	0.03%	39,336,109	$1,157,268,327
11/10/2020	$30.96	$0.00	5.10%	238,899	$30.97	$30.98	$0.01	0.03%	39,336,109	$1,217,845,935
11/11/2020	$31.39	$0.00	1.38%	179,003	$31.38	$31.39	$0.01	0.03%	39,336,109	$1,234,760,462
11/12/2020	$31.18	$0.00	-0.67%	146,574	$31.17	$31.18	$0.01	0.03%	39,336,109	$1,226,499,879
11/13/2020	$31.90	$0.00	2.28%	153,053	$31.90	$31.94	$0.04	0.13%	39,336,109	$1,254,821,877
11/16/2020	$32.47	$0.00	1.77%	172,539	$32.47	$32.50	$0.03	0.09%	39,336,109	$1,277,243,459
11/17/2020	$32.43	$0.00	-0.12%	189,360	$32.43	$32.45	$0.02	0.06%	39,336,109	$1,275,670,015
11/18/2020	$31.75	$0.00	-2.12%	206,061	$31.75	$31.77	$0.02	0.06%	39,336,109	$1,248,921,461
11/19/2020	$31.99	$0.00	0.75%	131,182	$31.99	$32.00	$0.01	0.03%	39,336,109	$1,258,362,127
11/20/2020	$31.49	$0.00	-1.58%	310,951	$31.53	$31.54	$0.01	0.03%	39,336,109	$1,238,694,072
11/23/2020	$31.55	$0.00	0.19%	140,719	$31.53	$31.56	$0.03	0.10%	39,336,109	$1,241,054,239
11/24/2020	$31.88	$0.00	1.04%	187,983	$31.88	$31.89	$0.01	0.03%	39,336,109	$1,254,035,155
11/25/2020	$31.55	$0.00	-1.04%	145,873	$31.55	$31.56	$0.01	0.03%	39,336,109	$1,241,054,239
11/27/2020	$31.43	$0.00	-0.38%	65,388	$31.43	$31.51	$0.08	0.25%	39,336,109	$1,236,333,906
11/30/2020	$30.97	$0.00	-1.47%	141,012	$31.00	$31.02	$0.02	0.06%	39,336,109	$1,218,239,296
12/1/2020	$31.04	$0.00	0.23%	162,556	$31.04	$31.05	$0.01	0.03%	39,336,109	$1,220,992,823
12/2/2020	$30.39	$0.00	-2.12%	140,782	$30.40	$30.41	$0.01	0.03%	39,336,109	$1,195,424,353
12/3/2020	$30.54	$0.00	0.49%	103,888	$30.54	$30.57	$0.03	0.10%	39,336,109	$1,201,324,769
12/4/2020	$30.42	$0.00	-0.39%	134,398	$30.45	$30.46	$0.01	0.03%	39,336,109	$1,196,604,436
12/7/2020	$30.18	$0.00	-0.79%	179,182	$30.19	$30.21	$0.02	0.07%	39,336,109	$1,187,163,770
12/8/2020	$30.47	$0.00	0.96%	767,015	$30.47	$30.48	$0.01	0.03%	39,336,109	$1,198,571,241
12/9/2020	$30.22	$0.00	-0.82%	250,615	$30.20	$30.22	$0.02	0.07%	39,336,109	$1,188,737,214
12/10/2020	$29.87	$0.00	-1.16%	229,349	$29.87	$29.89	$0.02	0.07%	39,336,109	$1,174,969,576
12/11/2020	$30.89	$0.00	3.36%	265,372	$30.93	$30.94	$0.01	0.03%	39,336,109	$1,215,092,407
12/14/2020	$30.72	$0.00	-0.55%	190,725	$30.72	$30.73	$0.01	0.03%	39,336,109	$1,208,405,268
12/15/2020	$30.10	$0.00	-2.04%	165,731	$30.10	$30.12	$0.02	0.07%	39,336,109	$1,184,016,881
12/16/2020	$29.83	$0.00	-0.90%	210,303	$29.83	$29.86	$0.03	0.10%	39,336,109	$1,173,396,131
12/17/2020	$29.98	$0.00	0.50%	155,330	$29.97	$29.98	$0.01	0.03%	39,336,109	$1,179,296,548
12/18/2020	$30.17	$0.09	0.93%	646,422	$30.17	$30.18	$0.01	0.03%	39,336,109	$1,186,770,409
12/21/2020	$30.28	$0.00	0.36%	138,823	$30.25	$30.28	$0.03	0.10%	39,336,109	$1,191,097,381
12/22/2020	$29.98	$0.00	-1.00%	178,013	$29.98	$30.00	$0.02	0.07%	39,336,109	$1,179,296,548
12/23/2020	$30.03	$0.00	0.17%	108,887	$30.03	$30.06	$0.03	0.10%	39,336,109	$1,181,263,353
12/24/2020	$30.40	$0.00	1.22%	77,129	$30.40	$30.42	$0.02	0.07%	39,336,109	$1,195,817,714
12/28/2020	$30.15	$0.00	-0.83%	199,524	$30.13	$30.15	$0.02	0.07%	39,336,109	$1,185,983,686
12/29/2020	$29.66	$0.00	-1.64%	178,296	$29.64	$29.66	$0.02	0.07%	39,336,109	$1,166,708,993
12/30/2020	$29.68	$0.00	0.07%	257,522	$29.68	$29.69	$0.01	0.03%	39,336,109	$1,167,495,715
12/31/2020	$29.70	$0.00	0.07%	207,745	$29.67	$29.70	$0.03	0.10%	39,336,109	$1,168,282,437

Exhibit-3h

TR Market Efficiency Statistics

January 28, 2020 through January 27, 2021

Date	Closing Price [a]	Dividend [b]	Log Return [b]	Volume [c]	Closing Bid [d]	Closing Ask [e]	Closing Bid/Ask Spread	Average Bid/Ask Spread %	Outstanding Shares [f]	Market Capitalization [g]
1/4/2021	$29.86	$0.00	0.54%	207,208	$29.86	$29.87	$0.01	0.03%	39,336,109	$1,174,576,215
1/5/2021	$30.72	$0.00	2.84%	339,037	$30.71	$30.72	$0.01	0.03%	39,336,109	$1,208,405,268
1/6/2021	$31.28	$0.00	1.81%	183,588	$31.25	$31.26	$0.01	0.03%	39,336,109	$1,230,433,490
1/7/2021	$31.00	$0.00	-0.90%	197,043	$30.99	$31.00	$0.01	0.03%	39,336,109	$1,219,419,379
1/8/2021	$30.45	$0.00	-1.79%	200,159	$30.44	$30.45	$0.01	0.03%	39,336,109	$1,197,784,519
1/11/2021	$29.92	$0.00	-1.76%	108,474	$29.92	$29.93	$0.01	0.03%	39,336,109	$1,176,936,381
1/12/2021	$30.01	$0.00	0.30%	132,157	$30.00	$30.01	$0.01	0.03%	39,336,109	$1,180,476,631
1/13/2021	$29.91	$0.00	-0.33%	133,030	$29.91	$29.94	$0.03	0.10%	39,336,109	$1,176,543,020
1/14/2021	$30.00	$0.00	0.30%	127,551	$30.00	$30.01	$0.01	0.03%	39,336,109	$1,180,083,270
1/15/2021	$30.31	$0.00	1.03%	123,646	$30.30	$30.31	$0.01	0.03%	39,336,109	$1,192,277,464
1/19/2021	$29.99	$0.00	-1.06%	154,796	$29.98	$29.99	$0.01	0.03%	39,336,109	$1,179,689,909
1/20/2021	$29.77	$0.00	-0.74%	164,055	$29.77	$29.78	$0.01	0.03%	39,336,109	$1,171,035,965
1/21/2021	$29.65	$0.00	-0.40%	114,456	$29.64	$29.65	$0.01	0.03%	39,336,109	$1,166,315,632
1/22/2021	$30.14	$0.00	1.64%	256,158	$30.13	$30.14	$0.01	0.03%	39,336,109	$1,185,590,325
1/25/2021	$34.86	$0.00	14.55%	1,123,982	$34.86	$34.87	$0.01	0.03%	39,336,109	$1,371,256,760
1/26/2021	$38.45	$0.00	9.80%	988,248	$38.44	$38.45	$0.01	0.03%	39,336,109	$1,512,473,391
1/27/2021	$42.85	$0.00	10.83%	7,237,895	$42.85	$42.86	$0.01	0.02%	39,336,109	$1,685,552,271
Average	$32.89	$0.00	0.09%	239,522	$32.88	$32.90	$0.02	0.05%	39,447,214	$1,297.4 million
Median	$32.48	$0.00	-0.12%	179,182	$32.48	$32.50	$0.01	0.03%	39,663,934	$1,281.5 million
High	$42.85	$0.09	14.55%	7,237,895	$42.85	$42.86	$0 53	1.52%	39,769,401	$1,685.6 million
Low	$29.07	$0.00	-5.52%	65,388	$29.06	$29.07	$0.01	0.02%	38,788,652	$1,153.0 million

Source: CRSP & SEC Filings.

Exhibit-3i

TRVG Market Efficiency Statistics

January 28, 2020 through January 27, 2021

Date	Closing Price [a]	Dividend [b]	Log Return [b]	Volume [c]	Closing Bid [d]	Closing Ask [e]	Closing Bid/Ask Spread	Average Bid/Ask Spread %	Outstanding Shares [f]	Market Capitalization [g]
1/28/2020	$2.66	$0.00	3.44%	157,339	$2.65	$2.67	$0.02	0.75%	50,816,706	$135,172,438
1/29/2020	$2.82	$0.00	5.84%	191,810	$2.83	$2.85	$0.02	0.70%	50,816,706	$143,303,111
1/30/2020	$2.72	$0.00	-3.61%	190,378	$2.71	$2.73	$0.02	0.74%	50,816,706	$138,221,440
1/31/2020	$2.63	$0.00	-3.36%	82,779	$2.62	$2.64	$0.02	0.76%	50,816,706	$133,647,937
2/3/2020	$2.64	$0.00	0.38%	70,909	$2.61	$2.64	$0.03	1.14%	50,816,706	$134,156,104
2/4/2020	$2.70	$0.00	2.25%	77,895	$2.69	$2.71	$0.02	0.74%	50,816,706	$137,205,106
2/5/2020	$2.81	$0.00	3.99%	125,479	$2.78	$2.81	$0.03	1.07%	50,816,706	$142,794,944
2/6/2020	$2.75	$0.00	-2.16%	109,957	$2.74	$2.75	$0.01	0.36%	50,816,706	$139,745,942
2/7/2020	$2.78	$0.00	1.09%	130,486	$2.78	$2.80	$0.02	0.72%	50,816,706	$141,270,443
2/10/2020	$2.85	$0.00	2.49%	198,180	$2.85	$2.86	$0.01	0.35%	50,816,706	$144,827,612
2/11/2020	$2.92	$0.00	2.43%	538,039	$2.90	$2.92	$0.02	0.69%	50,816,706	$148,384,782
2/12/2020	$2.62	$0.00	-10.84%	1,425,429	$2.61	$2.62	$0.01	0.38%	50,816,706	$133,139,770
2/13/2020	$2.52	$0.00	-3.89%	223,139	$2.51	$2.54	$0.03	1.19%	50,816,706	$128,058,099
2/14/2020	$2.61	$0.00	3.51%	289,805	$2.60	$2.61	$0.01	0.38%	50,816,706	$132,631,603
2/18/2020	$2.40	$0.00	-8.39%	519,329	$2.40	$2.43	$0.03	1.24%	50,816,706	$121,960,094
2/19/2020	$2.34	$0.00	-2.53%	347,773	$2.34	$2.35	$0.01	0.43%	50,816,706	$118,911,092
2/20/2020	$2.42	$0.00	3.36%	240,484	$2.40	$2.42	$0.02	0.83%	50,816,706	$122,976,429
2/21/2020	$2.32	$0.00	-4.22%	166,326	$2.32	$2.33	$0.01	0.43%	50,816,706	$117,894,758
2/24/2020	$2.13	$0.00	-8.54%	668,268	$2.12	$2.13	$0.01	0.47%	50,816,706	$108,239,584
2/25/2020	$2.10	$0.00	-1.42%	318,484	$2.10	$2.11	$0.01	0.48%	50,816,706	$106,715,083
2/26/2020	$1.92	$0.00	-8.96%	428,749	$1.92	$1.93	$0.01	0.52%	50,816,706	$97,568,076
2/27/2020	$1.88	$0.00	-2.11%	278,052	$1.88	$1.89	$0.01	0.53%	50,816,706	$95,535,407
2/28/2020	$1.82	$0.00	-3.24%	224,394	$1.82	$1.83	$0.01	0.55%	50,816,706	$92,486,405
3/2/2020	$1.82	$0.00	0.00%	149,675	$1.81	$1.82	$0.01	0.55%	50,816,706	$92,486,405
3/3/2020	$1.81	$0.00	-0.55%	296,931	$1.78	$1.81	$0.03	1.67%	50,816,706	$91,978,238
3/4/2020	$1.80	$0.00	-0.55%	250,903	$1.78	$1.80	$0.02	1.12%	50,816,706	$91,470,071
3/5/2020	$1.75	$0.00	-2.82%	362,278	$1.74	$1.75	$0.01	0.57%	50,816,706	$88,929,236
3/6/2020	$1.74	$0.00	-0.57%	422,615	$1.74	$1.76	$0.02	1.14%	50,816,706	$88,421,068
3/9/2020	$1.44	$0.00	-18.92%	715,429	$1.40	$1.43	$0.03	2.12%	50,816,706	$73,176,057
3/10/2020	$1.52	$0.00	5.41%	456,543	$1.52	$1.53	$0.01	0.66%	50,816,706	$77,241,393
3/11/2020	$1.56	$0.00	2.60%	493,709	$1.54	$1.56	$0.02	1.29%	50,816,706	$79,274,061
3/12/2020	$1.45	$0.00	-7.31%	2,504,780	$1.44	$1.45	$0.01	0.69%	50,816,706	$73,684,224
3/13/2020	$1.59	$0.00	9.22%	466,805	$1.58	$1.60	$0.02	1.26%	50,816,706	$80,798,563
3/16/2020	$1.54	$0.00	-3.12%	468,890	$1.54	$1.55	$0.01	0.65%	50,816,706	$78,318,707
3/17/2020	$1.59	$0.00	3.13%	296,358	$1.59	$1.60	$0.01	0.63%	50,816,706	$80,808,726
3/18/2020	$1.58	$0.00	-0.64%	533,145	$1.53	$1.60	$0.07	4.47%	50,816,706	$80,290,395
3/19/2020	$1.50	$0.00	-5.20%	258,167	$1.46	$1.50	$0.04	2.70%	50,816,706	$76,225,059
3/20/2020	$1.55	$0.00	3.28%	371,159	$1.54	$1.55	$0.01	0.65%	50,816,706	$78,765,894
3/23/2020	$1.48	$0.00	-4.62%	234,139	$1.47	$1.48	$0.01	0.68%	50,816,706	$75,208,725
3/24/2020	$1.60	$0.00	7.80%	361,884	$1.56	$1.59	$0.03	1.90%	50,816,706	$81,306,730
3/25/2020	$1.65	$0.00	3.08%	508,975	$1.60	$1.64	$0.04	2.47%	50,816,706	$83,847,565
3/26/2020	$1.62	$0.00	-1.83%	422,505	$1.61	$1.64	$0.03	1.85%	50,816,706	$82,323,064
3/27/2020	$1.51	$0.00	-7.03%	338,471	$1.50	$1.51	$0.01	0.66%	50,816,706	$76,733,226
3/30/2020	$1.42	$0.00	-6.15%	275,550	$1.42	$1.43	$0.01	0.70%	50,816,706	$72,159,723
3/31/2020	$1.46	$0.00	2.78%	265,483	$1.44	$1.46	$0.02	1.38%	51,325,206	$74,934,801
4/1/2020	$1.40	$0.00	-4.20%	243,654	$1.37	$1.39	$0.02	1.45%	51,325,206	$71,855,288
4/2/2020	$1.40	$0.00	0.00%	213,422	$1.38	$1.40	$0.02	1.44%	51,325,206	$71,855,288
4/3/2020	$1.39	$0.00	-0.72%	240,851	$1.36	$1.40	$0.04	2.90%	51,325,206	$71,342,036
4/6/2020	$1.43	$0.00	2.84%	261,412	$1.41	$1.43	$0.02	1.41%	51,325,206	$73,395,045
4/7/2020	$1.43	$0.00	0.00%	404,438	$1.41	$1.43	$0.02	1.41%	51,325,206	$73,395,045
4/8/2020	$1.60	$0.00	11.23%	703,352	$1.60	$1.63	$0.03	1.86%	51,325,206	$82,120,330
4/9/2020	$1.65	$0.00	3.08%	313,124	$1.63	$1.65	$0.02	1.22%	51,325,206	$84,686,590
4/13/2020	$1.64	$0.00	-0.61%	224,471	$1.61	$1.64	$0.03	1.85%	51,325,206	$84,173,338
4/14/2020	$1.79	$0.00	8.75%	422,070	$1.75	$1.78	$0.03	1.70%	51,325,206	$91,872,119
4/15/2020	$1.80	$0.00	0.56%	736,871	$1.75	$1.81	$0.06	3.37%	51,325,206	$92,385,371
4/16/2020	$1.71	$0.00	-5.13%	211,182	$1.69	$1.71	$0.02	1.18%	51,325,206	$87,766,102
4/17/2020	$1.69	$0.00	-1.18%	333,496	$1.67	$1.69	$0.02	1.19%	51,325,206	$86,739,598
4/20/2020	$1.64	$0.00	-3.00%	229,877	$1.61	$1.64	$0.03	1.85%	51,325,206	$84,173,338
4/21/2020	$1.60	$0.00	-2.47%	185,338	$1.58	$1.60	$0.02	1.26%	51,325,206	$82,120,330

Exhibit-3i

TRVG Market Efficiency Statistics

January 28, 2020 through January 27, 2021

Date	Closing Price [a]	Dividend [b]	Log Return [b]	Volume [c]	Closing Bid [d]	Closing Ask [e]	Closing Bid/Ask Spread	Average Bid/Ask Spread %	Outstanding Shares [f]	Market Capitalization [g]
4/22/2020	$1.67	$0.00	4.28%	105,340	$1.65	$1.67	$0.02	1.20%	51,325,206	$85,713,094
4/23/2020	$1.68	$0.00	0.60%	287,885	$1.65	$1.68	$0.03	1.80%	51,325,206	$86,226,346
4/24/2020	$1.69	$0.00	0.59%	116,328	$1.66	$1.69	$0.03	1.79%	51,325,206	$86,739,598
4/27/2020	$1.73	$0.00	2.34%	152,314	$1.75	$1.78	$0.03	1.70%	51,325,206	$88,792,606
4/28/2020	$1.75	$0.00	1.15%	224,079	$1.73	$1.75	$0.02	1.15%	51,325,206	$89,819,111
4/29/2020	$1.80	$0.00	2.82%	351,904	$1.79	$1.82	$0.03	1.66%	51,325,206	$92,385,371
4/30/2020	$1.83	$0.00	1.65%	222,174	$1.81	$1.82	$0.01	0.55%	51,325,206	$93,925,127
5/1/2020	$1.69	$0.00	-7.96%	209,470	$1.69	$1.70	$0.01	0.59%	51,325,206	$86,739,598
5/4/2020	$1.73	$0.00	2.34%	108,984	$1.69	$1.74	$0.05	2.92%	51,325,206	$88,792,606
5/5/2020	$1.65	$0.00	-4.73%	149,509	$1.63	$1.67	$0.04	2.42%	51,325,206	$84,686,590
5/6/2020	$1.59	$0.00	-3.70%	187,715	$1.59	$1.61	$0.02	1.25%	51,325,206	$81,607,078
5/7/2020	$1.61	$0.00	1.25%	147,060	$1.59	$1.60	$0.01	0.63%	51,325,206	$82,633,582
5/8/2020	$1.72	$0.00	6.61%	288,127	$1.69	$1.73	$0.04	2.34%	51,325,206	$88,279,354
5/11/2020	$1.68	$0.00	-2.35%	296,233	$1.64	$1.66	$0.02	1.21%	51,325,206	$86,226,346
5/12/2020	$1.59	$0.00	-5.51%	409,119	$1.57	$1.59	$0.02	1.27%	51,325,206	$81,607,078
5/13/2020	$1.55	$0.00	-2.55%	521,470	$1.52	$1.54	$0.02	1.31%	51,325,206	$79,554,069
5/14/2020	$1.49	$0.00	-3.95%	245,099	$1.49	$1.52	$0.03	1.99%	51,325,206	$76,474,557
5/15/2020	$1.45	$0.00	-2.72%	309,872	$1.42	$1.43	$0.01	0.70%	51,325,206	$74,421,549
5/18/2020	$1.66	$0.00	13.53%	1,039,338	$1.65	$1.67	$0.02	1.20%	51,325,206	$85,199,842
5/19/2020	$1.66	$0.00	0.00%	537,195	$1.64	$1.67	$0.03	1.81%	51,325,206	$85,199,842
5/20/2020	$1.87	$0.00	11.91%	1,366,892	$1.87	$1.88	$0.01	0.53%	51,325,206	$95,978,135
5/21/2020	$1.85	$0.00	-1.08%	448,657	$1.85	$1.86	$0.01	0.54%	51,325,206	$94,951,631
5/22/2020	$1.85	$0.00	0.00%	301,722	$1.86	$1.88	$0.02	1.07%	51,325,206	$94,951,631
5/26/2020	$1.98	$0.00	6.79%	696,441	$1.98	$1.99	$0.01	0.50%	51,325,206	$101,623,908
5/27/2020	$2.07	$0.00	4.45%	757,300	$2.04	$2.07	$0.03	1.46%	51,325,206	$106,243,176
5/28/2020	$2.14	$0.00	3.33%	717,508	$2.10	$2.14	$0.04	1.89%	51,325,206	$109,835,941
5/29/2020	$2.10	$0.00	-1.89%	314,929	$2.08	$2.10	$0.02	0.96%	51,325,206	$107,782,933
6/1/2020	$2.11	$0.00	0.48%	522,665	$2.09	$2.11	$0.02	0.95%	51,325,206	$108,296,185
6/2/2020	$2.20	$0.00	4.18%	483,200	$2.18	$2.19	$0.01	0.46%	51,325,206	$112,915,453
6/3/2020	$2.28	$0.00	3.57%	667,055	$2.25	$2.28	$0.03	1.32%	51,325,206	$117,021,470
6/4/2020	$2.32	$0.00	1.74%	823,123	$2.29	$2.32	$0.03	1.30%	51,325,206	$119,074,478
6/5/2020	$2.51	$0.00	7.87%	1,288,441	$2.48	$2.52	$0.04	1.60%	51,325,206	$128,826,267
6/8/2020	$2.70	$0.00	7.30%	974,164	$2.67	$2.69	$0.02	0.75%	51,325,206	$138,578,056
6/9/2020	$2.56	$0.00	-5.32%	645,130	$2.55	$2.56	$0.01	0.39%	51,325,206	$131,392,527
6/10/2020	$2.37	$0.00	-7.71%	491,334	$2.37	$2.38	$0.01	0.42%	51,325,206	$121,640,738
6/11/2020	$1.92	$0.00	-21.06%	1,060,882	$1.92	$1.93	$0.01	0.52%	51,325,206	$98,544,396
6/12/2020	$2.11	$0.00	9.44%	564,171	$2.09	$2.10	$0.01	0.48%	51,325,206	$108,296,185
6/15/2020	$2.13	$0.00	0.94%	436,237	$2.12	$2.13	$0.01	0.47%	51,325,206	$109,322,689
6/16/2020	$2.19	$0.00	2.78%	436,506	$2.16	$2.20	$0.04	1.83%	51,325,206	$112,402,201
6/17/2020	$2.12	$0.00	-3.25%	306,609	$2.10	$2.11	$0.01	0.48%	51,325,206	$108,809,437
6/18/2020	$2.18	$0.00	2.79%	253,672	$2.18	$2.20	$0.02	0.91%	51,325,206	$111,888,949
6/19/2020	$2.10	$0.00	-3.74%	307,918	$2.10	$2.13	$0.03	1.42%	51,325,206	$107,782,933
6/22/2020	$2.06	$0.00	-1.92%	392,537	$2.05	$2.07	$0.02	0.97%	51,325,206	$105,729,924
6/23/2020	$2.08	$0.00	0.97%	249,503	$2.06	$2.08	$0.02	0.97%	51,325,206	$106,756,428
6/24/2020	$2.01	$0.00	-3.42%	294,298	$1.99	$2.01	$0.02	1.00%	51,325,206	$103,163,664
6/25/2020	$1.97	$0.00	-2.01%	319,208	$2.01	$2.02	$0.01	0.50%	51,325,206	$101,110,656
6/26/2020	$1.93	$0.00	-2.05%	398,466	$1.90	$1.92	$0.02	1.05%	51,325,206	$99,057,648
6/29/2020	$1.98	$0.00	2.56%	217,075	$1.98	$1.99	$0.01	0.50%	51,325,206	$101,623,908
6/30/2020	$1.97	$0.00	-0.51%	294,055	$1.96	$1.97	$0.01	0.51%	55,112,630	$108,571,881
7/1/2020	$1.94	$0.00	-1.53%	313,968	$1.92	$1.94	$0.02	1.04%	55,112,630	$106,918,502
7/2/2020	$1.94	$0.00	0.00%	251,549	$1.93	$1.94	$0.01	0.52%	55,112,630	$106,918,502
7/6/2020	$1.87	$0.00	-3.67%	500,852	$1.87	$1.88	$0.01	0.53%	55,112,630	$103,060,618
7/7/2020	$1.89	$0.00	1.06%	343,214	$1.86	$1.88	$0.02	1.07%	55,112,630	$104,162,871
7/8/2020	$1.89	$0.00	0.00%	269,534	$1.87	$1.89	$0.02	1.06%	55,112,630	$104,162,871
7/9/2020	$1.85	$0.00	-2.14%	156,175	$1.83	$1.85	$0.02	1.09%	55,112,630	$101,958,366
7/10/2020	$1.86	$0.00	0.54%	206,683	$1.86	$1.90	$0.04	2.13%	55,112,630	$102,509,492
7/13/2020	$1.78	$0.00	-4.40%	880,914	$1.78	$1.79	$0.01	0.56%	55,112,630	$98,100,481
7/14/2020	$1.74	$0.00	-2.27%	461,797	$1.72	$1.74	$0.02	1.16%	55,112,630	$95,895,976
7/15/2020	$1.83	$0.00	5.04%	415,276	$1.82	$1.83	$0.01	0.55%	55,112,630	$100,856,113

Exhibit-3i

TRVG Market Efficiency Statistics

January 28, 2020 through January 27, 2021

Date	Closing Price [a]	Dividend [b]	Log Return [b]	Volume [c]	Closing Bid [d]	Closing Ask [e]	Closing Bid/Ask Spread	Average Bid/Ask Spread %	Outstanding Shares [f]	Market Capitalization [g]
7/16/2020	$1.80	$0.00	-1.65%	164,402	$1.78	$1.80	$0.02	1.12%	55,112,630	$99,202,734
7/17/2020	$1.78	$0.00	-1.12%	329,190	$1.76	$1.77	$0.01	0.57%	55,112,630	$98,100,481
7/20/2020	$1.77	$0.00	-0.56%	280,863	$1.74	$1.77	$0.03	1.71%	55,112,630	$97,549,355
7/21/2020	$1.73	$0.00	-2.29%	240,732	$1.72	$1.73	$0.01	0.58%	55,112,630	$95,344,850
7/22/2020	$1.70	$0.00	-1.75%	243,827	$1.67	$1.70	$0.03	1.78%	55,112,630	$93,691,471
7/23/2020	$1.68	$0.00	-1.18%	246,414	$1.68	$1.71	$0.03	1.77%	55,112,630	$92,589,218
7/24/2020	$1.67	$0.00	-0.60%	496,033	$1.66	$1.67	$0.01	0.60%	55,112,630	$92,038,092
7/27/2020	$1.64	$0.00	-1.81%	267,548	$1.62	$1.63	$0.01	0.62%	55,112,630	$90,384,713
7/28/2020	$1.65	$0.00	0.61%	161,565	$1.64	$1.66	$0.02	1.21%	55,112,630	$90,935,840
7/29/2020	$1.80	$0.00	8.70%	807,618	$1.79	$1.80	$0.01	0.56%	55,112,630	$99,202,734
7/30/2020	$1.85	$0.00	2.74%	375,114	$1.83	$1.85	$0.02	1.09%	55,112,630	$101,958,366
7/31/2020	$1.82	$0.00	-1.63%	250,140	$1.80	$1.82	$0.02	1.10%	55,112,630	$100,304,987
8/3/2020	$1.77	$0.00	-2.79%	317,568	$1.76	$1.77	$0.01	0.57%	55,112,630	$97,549,355
8/4/2020	$1.80	$0.00	1.68%	164,616	$1.77	$1.80	$0.03	1.68%	55,112,630	$99,202,734
8/5/2020	$1.86	$0.00	3.28%	184,774	$1.84	$1.85	$0.01	0.54%	55,112,630	$102,509,492
8/6/2020	$1.94	$0.00	4.21%	430,891	$1.88	$1.90	$0.02	1.06%	55,112,630	$106,918,502
8/7/2020	$1.83	$0.00	-5.84%	315,146	$1.83	$1.84	$0.01	0.54%	55,112,630	$100,856,113
8/10/2020	$1.87	$0.00	2.16%	132,876	$1.85	$1.86	$0.01	0.54%	55,112,630	$103,060,618
8/11/2020	$1.99	$0.00	6.22%	2,008,318	$1.96	$1.99	$0.03	1.52%	55,112,630	$109,674,134
8/12/2020	$2.01	$0.00	1.00%	554,803	$1.98	$2.00	$0.02	1.01%	55,112,630	$110,776,386
8/13/2020	$1.98	$0.00	-1.50%	259,441	$1.98	$2.00	$0.02	1.01%	55,112,630	$109,123,007
8/14/2020	$1.96	$0.00	-1.02%	166,039	$1.96	$1.97	$0.01	0.51%	55,112,630	$108,020,755
8/17/2020	$1.90	$0.00	-3.11%	226,070	$1.91	$1.94	$0.03	1.56%	55,112,630	$104,713,997
8/18/2020	$1.92	$0.00	1.05%	128,503	$1.91	$1.92	$0.01	0.52%	55,112,630	$105,816,250
8/19/2020	$1.75	$0.00	-9.27%	935,109	$1.75	$1.77	$0.02	1.14%	55,112,630	$96,447,103
8/20/2020	$1.84	$0.00	5.01%	242,722	$1.82	$1.83	$0.01	0.55%	55,112,630	$101,407,239
8/21/2020	$1.83	$0.00	-0.54%	119,348	$1.83	$1.85	$0.02	1.09%	55,112,630	$100,856,113
8/24/2020	$1.84	$0.00	0.54%	190,943	$1.86	$1.88	$0.02	1.07%	55,112,630	$101,407,239
8/25/2020	$1.88	$0.00	2.15%	111,809	$1.87	$1.88	$0.01	0.53%	55,112,630	$103,611,744
8/26/2020	$1.86	$0.00	-1.07%	136,241	$1.87	$1.88	$0.01	0.53%	55,112,630	$102,509,492
8/27/2020	$1.88	$0.00	1.07%	225,305	$1.87	$1.88	$0.01	0.53%	55,112,630	$103,611,744
8/28/2020	$1.88	$0.00	0.00%	165,173	$1.86	$1.88	$0.02	1.07%	55,112,630	$103,611,744
8/31/2020	$1.84	$0.00	-2.15%	197,342	$1.84	$1.87	$0.03	1.62%	55,112,630	$101,407,239
9/1/2020	$1.81	$0.00	-1.64%	248,196	$1.81	$1.86	$0.05	2.72%	55,112,630	$99,753,860
9/2/2020	$1.78	$0.00	-1.67%	225,961	$1.77	$1.79	$0.02	1.12%	55,112,630	$98,100,481
9/3/2020	$1.85	$0.00	3.86%	594,751	$1.83	$1.85	$0.02	1.09%	55,112,630	$101,958,366
9/4/2020	$1.84	$0.00	-0.54%	146,847	$1.82	$1.84	$0.02	1.09%	55,112,630	$101,407,239
9/8/2020	$1.77	$0.00	-3.88%	327,273	$1.76	$1.77	$0.01	0.57%	55,112,630	$97,549,355
9/9/2020	$1.78	$0.00	0.56%	237,947	$1.78	$1.80	$0.02	1.12%	55,112,630	$98,100,481
9/10/2020	$1.75	$0.00	-1.70%	363,654	$1.73	$1.75	$0.02	1.15%	55,112,630	$96,447,103
9/11/2020	$1.70	$0.00	-2.90%	134,185	$1.70	$1.72	$0.02	1.17%	55,112,630	$93,691,471
9/14/2020	$1.73	$0.00	1.75%	94,480	$1.71	$1.72	$0.01	0.58%	55,112,630	$95,344,850
9/15/2020	$1.70	$0.00	-1.75%	64,304	$1.70	$1.72	$0.02	1.17%	55,112,630	$93,691,471
9/16/2020	$1.75	$0.00	2.90%	185,065	$1.75	$1.77	$0.02	1.14%	55,112,630	$96,447,103
9/17/2020	$1.71	$0.00	-2.31%	156,850	$1.71	$1.72	$0.01	0.58%	55,112,630	$94,242,597
9/18/2020	$1.70	$0.00	-0.59%	233,682	$1.70	$1.71	$0.01	0.59%	55,112,630	$93,691,471
9/21/2020	$1.63	$0.00	-4.20%	252,333	$1.61	$1.62	$0.01	0.62%	55,112,630	$89,833,587
9/22/2020	$1.62	$0.00	-0.62%	140,363	$1.61	$1.64	$0.03	1.85%	55,112,630	$89,282,461
9/23/2020	$1.54	$0.00	-5.06%	208,288	$1.52	$1.53	$0.01	0.66%	55,112,630	$84,873,450
9/24/2020	$1.54	$0.00	0.00%	254,169	$1.52	$1.54	$0.02	1.31%	55,112,630	$84,873,450
9/25/2020	$1.54	$0.00	0.00%	276,307	$1.52	$1.55	$0.03	1.95%	55,112,630	$84,873,450
9/28/2020	$1.59	$0.00	3.20%	155,042	$1.57	$1.59	$0.02	1.27%	55,112,630	$87,629,082
9/29/2020	$1.57	$0.00	-1.27%	122,687	$1.56	$1.57	$0.01	0.64%	55,112,630	$86,526,829
9/30/2020	$1.55	$0.00	-1.28%	490,999	$1.53	$1.54	$0.01	0.65%	55,482,958	$85,998,585
10/1/2020	$1.48	$0.00	-4.62%	647,573	$1.46	$1.48	$0.02	1.36%	55,482,958	$82,114,778
10/2/2020	$1.42	$0.00	-4.14%	389,934	$1.41	$1.43	$0.02	1.41%	55,482,958	$78,785,800
10/5/2020	$1.41	$0.00	-0.71%	581,313	$1.39	$1.41	$0.02	1.43%	55,482,958	$78,230,971
10/6/2020	$1.40	$0.00	-0.71%	514,757	$1.37	$1.40	$0.03	2.17%	55,482,958	$77,676,141
10/7/2020	$1.41	$0.00	0.71%	240,809	$1.41	$1.44	$0.03	2.11%	55,482,958	$78,230,971

Exhibit-3i

TRVG Market Efficiency Statistics

January 28, 2020 through January 27, 2021

Date	Closing Price	Dividend	Log Return	Volume	Closing Bid	Closing Ask	Closing Bid/Ask Spread	Average Bid/Ask Spread %	Outstanding Shares	Market Capitalization
	[a]	[b]	[b]	[c]	[d]	[e]			[f]	[g]
10/8/2020	$1.47	$0.00	4.17%	212,720	$1.47	$1.48	$0.01	0.68%	55,482,958	$81,559,948
10/9/2020	$1.45	$0.00	-1.37%	216,801	$1.45	$1.47	$0.02	1.37%	55,482,958	$80,450,289
10/12/2020	$1.46	$0.00	0.69%	145,218	$1.46	$1.49	$0.03	2.03%	55,482,958	$81,005,119
10/13/2020	$1.47	$0.00	0.68%	165,092	$1.46	$1.47	$0.01	0.68%	55,482,958	$81,559,948
10/14/2020	$1.50	$0.00	2.02%	357,353	$1.50	$1.52	$0.02	1.32%	55,482,958	$83,224,437
10/15/2020	$1.43	$0.00	-4.78%	277,429	$1.43	$1.44	$0.01	0.70%	55,482,958	$79,340,630
10/16/2020	$1.43	$0.00	0.00%	203,348	$1.43	$1.47	$0.04	2.76%	55,482,958	$79,340,630
10/19/2020	$1.45	$0.00	1.39%	192,011	$1.43	$1.45	$0.02	1.39%	55,482,958	$80,450,289
10/20/2020	$1.44	$0.00	-0.69%	186,670	$1.44	$1.45	$0.01	0.69%	55,482,958	$79,895,460
10/21/2020	$1.46	$0.00	1.38%	336,396	$1.46	$1.49	$0.03	2.03%	55,482,958	$81,005,119
10/22/2020	$1.45	$0.00	-0.69%	288,787	$1.45	$1.46	$0.01	0.69%	55,482,958	$80,450,289
10/23/2020	$1.50	$0.00	3.39%	324,154	$1.48	$1.50	$0.02	1.34%	55,482,958	$83,224,437
10/26/2020	$1.37	$0.00	-9.07%	724,235	$1.37	$1.38	$0.01	0.73%	55,482,958	$76,011,652
10/27/2020	$1.41	$0.00	2.88%	264,135	$1.39	$1.41	$0.02	1.43%	55,482,958	$78,230,971
10/28/2020	$1.33	$0.00	-5.84%	412,061	$1.32	$1.33	$0.01	0.75%	55,482,958	$73,792,334
10/29/2020	$1.36	$0.00	2.23%	209,437	$1.36	$1.37	$0.01	0.73%	55,482,958	$75,456,823
10/30/2020	$1.35	$0.00	-0.74%	305,743	$1.35	$1.37	$0.02	1.47%	55,482,958	$74,901,993
11/2/2020	$1.27	$0.00	-6.11%	1,034,968	$1.27	$1.31	$0.04	3.10%	55,482,958	$70,463,357
11/3/2020	$1.28	$0.00	0.78%	2,022,919	$1.25	$1.27	$0.02	1.59%	55,482,958	$71,018,186
11/4/2020	$1.25	$0.00	-2.37%	1,036,433	$1.24	$1.25	$0.01	0.80%	55,482,958	$69,353,698
11/5/2020	$1.26	$0.00	0.80%	815,306	$1.26	$1.28	$0.02	1.57%	55,482,958	$69,908,527
11/6/2020	$1.30	$0.00	3.13%	590,269	$1.28	$1.30	$0.02	1.55%	55,482,958	$72,127,845
11/9/2020	$1.56	$0.00	18.23%	3,972,889	$1.55	$1.58	$0.03	1.92%	55,482,958	$86,553,414
11/10/2020	$1.50	$0.00	-3.92%	1,587,201	$1.47	$1.48	$0.01	0.68%	55,482,958	$83,224,437
11/11/2020	$1.42	$0.00	-5.48%	2,011,134	$1.40	$1.42	$0.02	1.42%	55,482,958	$78,785,800
11/12/2020	$1.37	$0.00	-3.58%	957,183	$1.35	$1.37	$0.02	1.47%	55,482,958	$76,011,652
11/13/2020	$1.40	$0.00	2.17%	1,367,745	$1.36	$1.41	$0.05	3.61%	55,482,958	$77,676,141
11/16/2020	$1.42	$0.00	1.42%	4,023,114	$1.42	$1.43	$0.01	0.70%	55,482,958	$78,785,800
11/17/2020	$1.46	$0.00	2.78%	1,265,270	$1.44	$1.46	$0.02	1.38%	55,482,958	$81,005,119
11/18/2020	$1.46	$0.00	0.00%	1,465,071	$1.43	$1.46	$0.03	2.08%	55,482,958	$81,005,119
11/19/2020	$1.50	$0.00	2.70%	916,153	$1.49	$1.50	$0.01	0.67%	55,482,958	$83,224,437
11/20/2020	$1.49	$0.00	-0.67%	835,430	$1.47	$1.48	$0.01	0.68%	55,482,958	$82,669,607
11/23/2020	$1.71	$0.00	13.77%	2,596,762	$1.70	$1.71	$0.01	0.59%	55,482,958	$94,875,858
11/24/2020	$2.15	$0.00	22.90%	7,355,941	$2.14	$2.15	$0.01	0.47%	55,482,958	$119,288,360
11/25/2020	$2.25	$0.00	4.55%	3,622,836	$2.22	$2.24	$0.02	0.90%	55,482,958	$124,836,656
11/27/2020	$2.42	$0.00	7.28%	2,141,080	$2.41	$2.42	$0.01	0.41%	55,482,958	$134,268,758
11/30/2020	$2.19	$0.00	-9.99%	2,625,576	$2.17	$2.18	$0.01	0.46%	55,482,958	$121,507,678
12/1/2020	$2.07	$0.00	-5.64%	2,064,603	$2.06	$2.07	$0.01	0.48%	55,482,958	$114,849,723
12/2/2020	$2.24	$0.00	7.89%	2,033,007	$2.20	$2.24	$0.04	1.80%	55,482,958	$124,281,826
12/3/2020	$2.17	$0.00	-3.17%	1,186,896	$2.14	$2.17	$0.03	1.39%	55,482,958	$120,398,019
12/4/2020	$2.23	$0.00	2.73%	1,376,284	$2.22	$2.23	$0.01	0.45%	55,482,958	$123,726,996
12/7/2020	$2.20	$0.00	-1.35%	887,291	$2.17	$2.20	$0.03	1.37%	55,482,958	$122,062,508
12/8/2020	$2.19	$0.00	-0.46%	1,228,848	$2.20	$2.21	$0.01	0.45%	55,482,958	$121,507,678
12/9/2020	$2.16	$0.00	-1.38%	1,686,237	$2.12	$2.16	$0.04	1.87%	55,482,958	$119,843,189
12/10/2020	$2.52	$0.00	15.42%	2,510,578	$2.51	$2.53	$0.02	0.79%	55,482,958	$139,817,054
12/11/2020	$2.35	$0.00	-6.98%	1,989,110	$2.35	$2.37	$0.02	0.85%	55,482,958	$130,384,951
12/14/2020	$2.40	$0.00	2.11%	1,099,673	$2.38	$2.40	$0.02	0.84%	55,482,958	$133,159,099
12/15/2020	$2.49	$0.00	3.68%	1,103,533	$2.47	$2.49	$0.02	0.81%	55,482,958	$138,152,565
12/16/2020	$2.34	$0.00	-6.21%	1,249,329	$2.32	$2.34	$0.02	0.86%	55,482,958	$129,830,122
12/17/2020	$2.20	$0.00	-6.17%	1,348,163	$2.21	$2.22	$0.01	0.45%	55,482,958	$122,062,508
12/18/2020	$2.21	$0.00	0.45%	883,812	$2.22	$2.24	$0.02	0.90%	55,482,958	$122,617,337
12/21/2020	$2.15	$0.00	-2.75%	1,421,799	$2.16	$2.17	$0.01	0.46%	55,482,958	$119,288,360
12/22/2020	$2.13	$0.00	-0.93%	1,023,597	$2.13	$2.16	$0.03	1.40%	55,482,958	$118,178,701
12/23/2020	$2.20	$0.00	3.23%	1,472,875	$2.20	$2.21	$0.01	0.45%	55,482,958	$122,062,508
12/24/2020	$2.20	$0.00	0.00%	285,252	$2.20	$2.23	$0.03	1.35%	55,482,958	$122,062,508
12/28/2020	$2.17	$0.00	-1.37%	856,188	$2.16	$2.17	$0.01	0.46%	55,482,958	$120,398,019
12/29/2020	$2.17	$0.00	0.00%	798,729	$2.16	$2.17	$0.01	0.46%	55,482,958	$120,398,019
12/30/2020	$2.25	$0.00	3.62%	894,980	$2.23	$2.25	$0.02	0.89%	55,482,958	$124,836,656
12/31/2020	$2.42	$0.00	7.28%	1,082,649	$2.42	$2.44	$0.02	0.82%	55,967,976	$135,442,502

Exhibit-3i

TRVG Market Efficiency Statistics

January 28, 2020 through January 27, 2021

Date	Closing Price [a]	Dividend [b]	Log Return [b]	Volume [c]	Closing Bid [d]	Closing Ask [e]	Closing Bid/Ask Spread	Average Bid/Ask Spread %	Outstanding Shares [f]	Market Capitalization [g]
1/4/2021	$2.27	$0.00	-6.40%	1,575,836	$2.26	$2.27	$0.01	0.44%	55,967,976	$127,047,306
1/5/2021	$2.29	$0.00	0.88%	799,447	$2.28	$2.29	$0.01	0.44%	55,967,976	$128,166,665
1/6/2021	$2.20	$0.00	-4.01%	927,331	$2.21	$2.22	$0.01	0.45%	55,967,976	$123,129,547
1/7/2021	$2.24	$0.00	1.80%	628,257	$2.24	$2.26	$0.02	0.89%	55,967,976	$125,368,266
1/8/2021	$2.35	$0.00	4.79%	1,048,039	$2.34	$2.35	$0.01	0.43%	55,967,976	$131,524,744
1/11/2021	$2.32	$0.00	-1.28%	808,612	$2.30	$2.31	$0.01	0.43%	55,967,976	$129,845,704
1/12/2021	$2.30	$0.00	-0.87%	459,663	$2.30	$2.31	$0.01	0.43%	55,967,976	$128,726,345
1/13/2021	$2.26	$0.00	-1.75%	987,595	$2.24	$2.25	$0.01	0.45%	55,967,976	$126,487,626
1/14/2021	$2.23	$0.00	-1.34%	589,697	$2.23	$2.24	$0.01	0.45%	55,967,976	$124,808,586
1/15/2021	$2.16	$0.00	-3.19%	1,001,722	$2.16	$2.17	$0.01	0.46%	55,967,976	$120,890,828
1/19/2021	$2.15	$0.00	-0.46%	1,219,669	$2.14	$2.18	$0.04	1.85%	55,967,976	$120,331,148
1/20/2021	$2.11	$0.00	-1.88%	1,094,513	$2.11	$2.13	$0.02	0.94%	55,967,976	$118,092,429
1/21/2021	$2.18	$0.00	3.26%	689,571	$2.17	$2.18	$0.01	0.46%	55,967,976	$122,010,188
1/22/2021	$2.19	$0.00	0.46%	776,106	$2.18	$2.19	$0.01	0.46%	55,967,976	$122,569,867
1/25/2021	$2.18	$0.00	-0.46%	1,178,420	$2.18	$2.19	$0.01	0.46%	55,967,976	$122,010,188
1/26/2021	$2.10	$0.00	-3.74%	1,305,030	$2.10	$2.11	$0.01	0.48%	55,967,976	$117,532,750
1/27/2021	$3.19	$0.00	41.81%	43,930,881	$3.17	$3.19	$0.02	0.63%	55,967,976	$178,537,843
Average	$1.88	$0.00	0.09%	793,886	$1.86	$1.88	$0.02	1.08%	53,576,934	$100.5 million
Median	$1.82	$0.00	-0.51%	343,214	$1.81	$1.82	$0.02	0.96%	55,112,630	$98.1 million
High	$3.19	$0.00	41.81%	43,930,881	$3.17	$3.19	$0.07	4.47%	55,967,976	$178.5 million
Low	$1.25	$0.00	-21.06%	64,304	$1.24	$1.25	$0.01	0.35%	50,816,706	$69.4 million

Source: CRSP & SEC Filings.

Exhibit-4

Market Index Returns

January 28, 2020 through January 27, 2021

Date	Market Index Return
1/28/2020	0.96%
1/29/2020	-0.12%
1/30/2020	0.28%
1/31/2020	-1.68%
2/3/2020	0.75%
2/4/2020	1.47%
2/5/2020	0.93%
2/6/2020	0.26%
2/7/2020	-0.55%
2/10/2020	0.67%
2/11/2020	0.34%
2/12/2020	0.64%
2/13/2020	-0.08%
2/14/2020	0.17%
2/18/2020	-0.19%
2/19/2020	0.52%
2/20/2020	-0.26%
2/21/2020	-0.98%
2/24/2020	-3.23%
2/25/2020	-2.99%
2/26/2020	-0.54%
2/27/2020	-4.19%
2/28/2020	-0.86%
3/2/2020	3.95%
3/3/2020	-2.49%
3/4/2020	3.69%
3/5/2020	-3.20%
3/6/2020	-1.79%
3/9/2020	-8.26%
3/10/2020	4.34%
3/11/2020	-5.12%
3/12/2020	-10.19%
3/13/2020	8.20%
3/16/2020	-12.58%
3/17/2020	5.17%
3/18/2020	-6.15%
3/19/2020	1.42%

Exhibit-4

Market Index Returns

January 28, 2020 through January 27, 2021

Date	Market Index Return
3/20/2020	-3.79%
3/23/2020	-2.72%
3/24/2020	8.76%
3/25/2020	1.62%
3/26/2020	5.59%
3/27/2020	-3.36%
3/30/2020	2.86%
3/31/2020	-1.24%
4/1/2020	-4.61%
4/2/2020	1.93%
4/3/2020	-1.59%
4/6/2020	6.57%
4/7/2020	0.05%
4/8/2020	3.33%
4/9/2020	1.81%
4/13/2020	-1.02%
4/14/2020	2.78%
4/15/2020	-2.33%
4/16/2020	0.42%
4/17/2020	2.73%
4/20/2020	-1.57%
4/21/2020	-2.96%
4/22/2020	2.16%
4/23/2020	0.12%
4/24/2020	1.30%
4/27/2020	1.74%
4/28/2020	-0.23%
4/29/2020	2.85%
4/30/2020	-1.32%
5/1/2020	-2.84%
5/4/2020	0.48%
5/5/2020	0.87%
5/6/2020	-0.59%
5/7/2020	1.32%
5/8/2020	1.84%
5/11/2020	-0.04%
5/12/2020	-2.06%

Exhibit-4

Market Index Returns

January 28, 2020 through January 27, 2021

Date	Market Index Return
5/13/2020	-1.92%
5/14/2020	1.02%
5/15/2020	0.52%
5/18/2020	3.28%
5/19/2020	-0.98%
5/20/2020	1.72%
5/21/2020	-0.67%
5/22/2020	0.27%
5/26/2020	1.41%
5/27/2020	1.49%
5/28/2020	-0.35%
5/29/2020	0.47%
6/1/2020	0.66%
6/2/2020	0.84%
6/3/2020	1.48%
6/4/2020	-0.30%
6/5/2020	2.47%
6/8/2020	1.41%
6/9/2020	-0.96%
6/10/2020	-0.67%
6/11/2020	-6.00%
6/12/2020	1.40%
6/15/2020	1.06%
6/16/2020	1.75%
6/17/2020	-0.41%
6/18/2020	0.12%
6/19/2020	-0.46%
6/22/2020	0.67%
6/23/2020	0.39%
6/24/2020	-2.61%
6/25/2020	1.12%
6/26/2020	-2.31%
6/29/2020	1.44%
6/30/2020	1.46%
7/1/2020	0.40%
7/2/2020	0.50%
7/6/2020	1.48%

Exhibit-4

Market Index Returns

January 28, 2020 through January 27, 2021

Date	Market Index Return
7/7/2020	-1.03%
7/8/2020	0.84%
7/9/2020	-0.57%
7/10/2020	1.03%
7/13/2020	-1.13%
7/14/2020	1.32%
7/15/2020	1.17%
7/16/2020	-0.40%
7/17/2020	0.36%
7/20/2020	0.85%
7/21/2020	0.23%
7/22/2020	0.51%
7/23/2020	-1.10%
7/24/2020	-0.70%
7/27/2020	0.90%
7/28/2020	-0.69%
7/29/2020	1.33%
7/30/2020	-0.38%
7/31/2020	0.45%
8/3/2020	0.87%
8/4/2020	0.45%
8/5/2020	0.75%
8/6/2020	0.46%
8/7/2020	0.02%
8/10/2020	0.26%
8/11/2020	-0.80%
8/12/2020	1.29%
8/13/2020	-0.06%
8/14/2020	-0.07%
8/17/2020	0.50%
8/18/2020	0.14%
8/19/2020	-0.44%
8/20/2020	0.28%
8/21/2020	0.16%
8/24/2020	0.89%
8/25/2020	0.34%
8/26/2020	0.87%

Exhibit-4

Market Index Returns

January 28, 2020 through January 27, 2021

Date	Market Index Return
8/27/2020	0.17%
8/28/2020	0.69%
8/31/2020	-0.16%
9/1/2020	0.85%
9/2/2020	1.20%
9/3/2020	-3.46%
9/4/2020	-0.81%
9/8/2020	-2.72%
9/9/2020	1.96%
9/10/2020	-1.57%
9/11/2020	-0.02%
9/14/2020	1.53%
9/15/2020	0.54%
9/16/2020	-0.32%
9/17/2020	-0.79%
9/18/2020	-0.89%
9/21/2020	-1.26%
9/22/2020	0.93%
9/23/2020	-2.43%
9/24/2020	0.20%
9/25/2020	1.56%
9/28/2020	1.64%
9/29/2020	-0.40%
9/30/2020	0.69%
10/1/2020	0.78%
10/2/2020	-0.78%
10/5/2020	1.81%
10/6/2020	-1.20%
10/7/2020	1.69%
10/8/2020	0.85%
10/9/2020	0.85%
10/12/2020	1.34%
10/13/2020	-0.50%
10/14/2020	-0.60%
10/15/2020	-0.08%
10/16/2020	-0.07%
10/19/2020	-1.43%

Exhibit-4

Market Index Returns

January 28, 2020 through January 27, 2021

Date	Market Index Return
10/20/2020	0.38%
10/21/2020	-0.34%
10/22/2020	0.61%
10/23/2020	0.38%
10/26/2020	-1.83%
10/27/2020	-0.30%
10/28/2020	-3.34%
10/29/2020	1.04%
10/30/2020	-1.32%
11/2/2020	1.20%
11/3/2020	1.86%
11/4/2020	1.94%
11/5/2020	2.09%
11/6/2020	0.00%
11/9/2020	1.06%
11/10/2020	-0.06%
11/11/2020	0.80%
11/12/2020	-0.97%
11/13/2020	1.32%
11/16/2020	1.23%
11/17/2020	-0.15%
11/18/2020	-0.91%
11/19/2020	0.58%
11/20/2020	-0.43%
11/23/2020	0.79%
11/24/2020	1.50%
11/25/2020	0.02%
11/27/2020	0.40%
11/30/2020	-0.58%
12/1/2020	0.96%
12/2/2020	0.12%
12/3/2020	0.23%
12/4/2020	1.04%
12/7/2020	-0.02%
12/8/2020	0.43%
12/9/2020	-0.96%
12/10/2020	0.26%

Exhibit-4

Market Index Returns

January 28, 2020 through January 27, 2021

Date	Market Index Return
12/11/2020	-0.23%
12/14/2020	-0.33%
12/15/2020	1.30%
12/16/2020	0.14%
12/17/2020	0.79%
12/18/2020	-0.21%
12/21/2020	-0.29%
12/22/2020	0.06%
12/23/2020	0.14%
12/24/2020	0.23%
12/28/2020	0.38%
12/29/2020	-0.37%
12/30/2020	0.33%
12/31/2020	0.36%
1/4/2021	-1.32%
1/5/2021	0.90%
1/6/2021	0.80%
1/7/2021	1.61%
1/8/2021	0.47%
1/11/2021	-0.57%
1/12/2021	0.42%
1/13/2021	0.09%
1/14/2021	0.00%
1/15/2021	-0.86%
1/19/2021	0.85%
1/20/2021	1.20%
1/21/2021	-0.09%
1/22/2021	-0.15%
1/25/2021	0.24%
1/26/2021	-0.29%
1/27/2021	-2.51%

Sources: CRSP.
Note: All returns are logarithmic returns.

Exhibit-5

Affected Companies' Peer Returns

January 28, 2020 through January 27, 2021

	AMC	BB	BBBY	EXPR	GME	KOSS	NOK	TR	TRVG
	Custom Peer Index	S&P 500 Information Technology Sector GICS Level 1 Index	S&P 500 Specialty Retail Industry GICS Level 3 Index	Dow Jones US Apparel Retailers Index	Dow Jones US Specialty Retailers Index	S&P 500 Household Durables Industry GICS Level 3 Index	S&P 500 Communications Equipment Industry GICS Level 3 Index	Dow Jones US Food Producers Index	S&P 500 Interactive Media & Services (Industry) Index
1/28/2020	1 97%	1 86%	0 84%	0 41%	0 88%	2 65%	0 28%	-0 05%	1 33%
1/29/2020	-0 75%	0 21%	-0 14%	0 24%	-0 97%	-1 53%	-1 26%	-0 46%	1 18%
1/30/2020	0 22%	0 89%	-0 58%	-0 64%	0 29%	-0 33%	0 29%	2 60%	-2 46%
1/31/2020	-3 22%	-2 75%	-2 28%	-2 04%	-1 93%	-2 55%	-2 56%	-1 98%	-2 29%
2/3/2020	-0 71%	1 31%	1 10%	1 49%	1 84%	0 20%	0 93%	0 47%	2 62%
2/4/2020	0 33%	2 57%	1 33%	1 78%	1 55%	-0 39%	2 14%	-0 24%	-0 61%
2/5/2020	3 52%	0 60%	1 80%	2 04%	1 23%	2 03%	1 25%	0 95%	0 06%
2/6/2020	-0 93%	0 90%	-0 29%	-0 67%	-0 87%	0 03%	0 52%	-0 83%	1 63%
2/7/2020	-1 42%	-0 91%	-0 65%	-0 98%	-0 62%	-0 29%	-1 06%	0 49%	0 30%
2/10/2020	0 15%	1 34%	0 75%	0 31%	0 62%	1 00%	1 88%	0 65%	1 30%
2/11/2020	-0 13%	-0 35%	0 73%	1 61%	0 55%	0 86%	0 44%	0 39%	-0 97%
2/12/2020	0 36%	1 06%	0 68%	1 18%	1 27%	-0 21%	1 34%	0 07%	1 03%
2/13/2020	-1 00%	-0 29%	0 12%	0 06%	0 02%	-0 11%	-4 02%	-0 05%	0 23%
2/14/2020	-0 35%	0 49%	0 49%	0 30%	-0 46%	0 59%	-0 96%	0 15%	0 40%
2/18/2020	1 40%	-0 35%	-0 19%	-0 04%	1 63%	-0 98%	-0 56%	-0 54%	0 65%
2/19/2020	1 00%	1 14%	0 06%	0 40%	0 19%	0 84%	-0 39%	-0 67%	0 24%
2/20/2020	1 46%	-1 01%	1 23%	0 29%	0 65%	0 23%	1 07%	-0 02%	-0 80%
2/21/2020	-9 26%	-2 28%	-0 75%	-0 75%	-0 98%	-1 00%	-1 05%	-0 57%	-2 16%
2/24/2020	-1 64%	-4 27%	-2 25%	-2 09%	-2 82%	-2 63%	-4 52%	-1 46%	-4 50%
2/25/2020	-5 51%	-3 23%	-2 30%	-3 23%	-2 65%	-3 84%	-2 82%	-2 25%	-2 22%
2/26/2020	-5 19%	0 40%	-0 32%	2 98%	1 65%	-1 75%	-1 18%	-1 32%	0 24%
2/27/2020	-1 13%	-5 47%	-4 36%	-5 06%	-2 52%	-2 41%	-5 01%	-3 66%	-4 94%
2/28/2020	2 72%	0 79%	-1 92%	-1 11%	-1 50%	-2 67%	-0 57%	-2 12%	1 59%
3/2/2020	-3 77%	5 55%	4 06%	2 30%	2 98%	3 54%	3 10%	4 36%	3 10%
3/3/2020	-2 10%	-3 87%	-1 73%	-2 24%	-2 85%	-0 54%	-2 23%	-1 29%	-4 21%
3/4/2020	0 42%	4 21%	4 25%	1 78%	3 23%	3 99%	3 58%	4 20%	3 21%
3/5/2020	-3 48%	-3 26%	-3 75%	-4 85%	-3 13%	-3 75%	-3 89%	-1 82%	-4 41%
3/6/2020	1 96%	-2 05%	-1 70%	-0 98%	-0 46%	-2 64%	-0 29%	-1 56%	-1 82%
3/9/2020	-9 58%	-7 86%	-6 68%	-4 65%	-4 10%	-8 37%	-4 72%	-4 51%	-6 46%
3/10/2020	4 90%	6 39%	5 93%	2 65%	4 52%	4 21%	5 25%	2 12%	5 00%
3/11/2020	-10 05%	-4 82%	-4 91%	-4 61%	-5 01%	-8 49%	-7 59%	-4 54%	-5 06%
3/12/2020	-28 74%	-10 34%	-10 80%	-10 08%	-11 92%	-13 18%	-10 97%	-10 00%	-9 13%
3/13/2020	0 74%	11 30%	5 93%	3 46%	5 53%	2 89%	11 51%	6 40%	9 21%
3/16/2020	-31 82%	-14 98%	-21 68%	-22 09%	-13 64%	-18 17%	-10 39%	-7 66%	-13 37%
3/17/2020	-33 17%	6 55%	3 45%	0 36%	6 69%	0 41%	4 54%	8 38%	3 16%
3/18/2020	-3 41%	-4 70%	-10 18%	-7 28%	-6 40%	-9 56%	3 46%	-5 57%	-2 20%
3/19/2020	51 92%	1 10%	4 05%	5 65%	3 42%	3 25%	1 57%	-1 33%	2 71%
3/20/2020	-2 54%	-4 50%	-6 35%	-6 00%	-2 16%	-3 97%	-5 96%	-3 71%	-3 29%
3/23/2020	5 53%	-0 99%	2 76%	-3 15%	3 98%	-7 48%	-3 47%	-4 24%	-1 21%
3/24/2020	-4 22%	9 81%	12 24%	11 86%	4 47%	16 66%	10 24%	7 43%	7 45%
3/25/2020	-1 43%	-0 28%	3 14%	7 24%	-0 24%	7 59%	-1 55%	0 10%	-2 76%
3/26/2020	6 33%	6 16%	6 03%	5 53%	4 64%	4 23%	7 71%	4 88%	4 96%
3/27/2020	-5 66%	-4 71%	-2 52%	-3 50%	-2 07%	-3 88%	-4 94%	-1 18%	-4 40%
3/30/2020	-15 77%	4 15%	1 96%	1 43%	2 31%	-0 01%	3 21%	4 82%	4 05%
3/31/2020	2 46%	-1 91%	-3 09%	0 33%	-0 61%	-4 79%	-2 36%	-1 30%	0 97%
4/1/2020	-18 41%	-4 83%	-5 37%	-6 77%	-3 57%	-6 87%	-2 85%	-2 37%	-4 89%
4/2/2020	4 72%	2 28%	0 92%	-1 69%	1 27%	-1 14%	4 21%	2 17%	0 50%
4/3/2020	1 96%	-1 67%	-2 30%	-4 88%	-1 62%	-1 68%	-1 69%	1 40%	-2 25%
4/6/2020	8 65%	8 41%	8 95%	11 90%	7 92%	11 90%	6 39%	2 50%	7 61%
4/7/2020	10 98%	-1 07%	0 95%	1 21%	-0 12%	1 52%	-1 16%	-0 53%	0 71%
4/8/2020	3 52%	2 72%	2 86%	4 67%	1 51%	7 06%	2 78%	0 86%	2 55%
4/9/2020	7 96%	0 02%	1 91%	0 56%	0 81%	2 86%	-0 70%	2 17%	0 20%
4/13/2020	-11 49%	0 20%	-0 90%	-2 72%	3 39%	-5 22%	-0 75%	-0 98%	0 13%
4/14/2020	4 40%	4 08%	3 83%	4 10%	3 77%	3 60%	3 65%	2 78%	3 42%
4/15/2020	-0 57%	-2 20%	-3 99%	-3 59%	-0 25%	-5 97%	-2 86%	-1 82%	-0 64%
4/16/2020	0 76%	1 23%	-0 05%	-2 26%	2 44%	0 30%	0 36%	1 42%	-0 18%
4/17/2020	12 99%	1 37%	4 66%	5 62%	-0 09%	4 96%	2 42%	1 14%	1 63%
4/20/2020	2 38%	-1 80%	-2 07%	-4 28%	1 06%	-4 04%	0 02%	-0 21%	-1 02%
4/21/2020	-0 67%	-4 19%	-2 68%	-3 24%	-1 26%	-1 38%	-4 94%	-2 93%	-4 11%
4/22/2020	-7 09%	3 80%	1 63%	-0 31%	-0 71%	1 24%	3 24%	1 01%	4 85%
4/23/2020	1 94%	-0 69%	-0 44%	-0 93%	0 82%	0 71%	-0 15%	-0 92%	1 16%
4/24/2020	-4 58%	2 09%	3 70%	1 23%	1 46%	3 17%	1 88%	0 67%	1 22%
4/27/2020	6 96%	0 91%	2 82%	4 73%	1 14%	4 47%	1 27%	1 08%	-0 64%
4/28/2020	7 29%	-1 42%	0 84%	2 59%	-1 75%	6 54%	-1 39%	0 80%	-2 96%
4/29/2020	6 79%	4 13%	2 49%	4 15%	1 69%	3 78%	1 80%	0 40%	7 54%
4/30/2020	-7 73%	-0 46%	-2 23%	-5 25%	-0 40%	-4 45%	-2 47%	-1 14%	2 06%
5/1/2020	-3 58%	-2 94%	-1 22%	-1 93%	-1 98%	-2 60%	-3 44%	-1 98%	-1 81%
5/4/2020	1 49%	1 41%	1 31%	-0 77%	2 47%	-0 35%	1 03%	-0 91%	0 84%
5/5/2020	-2 95%	1 41%	1 48%	0 24%	0 49%	0 89%	0 52%	0 48%	1 47%
5/6/2020	-3 07%	0 73%	-0 43%	-0 75%	1 29%	-1 63%	-1 09%	-0 74%	0 07%
5/7/2020	5 50%	1 53%	1 54%	1 51%	0 25%	-0 25%	0 64%	0 19%	1 66%
5/8/2020	3 47%	1 44%	2 25%	1 23%	1 72%	5 26%	3 05%	2 68%	0 94%
5/11/2020	-2 81%	0 69%	0 11%	-0 91%	0 80%	-2 27%	0 67%	-0 38%	0 88%
5/12/2020	-3 44%	-2 16%	-2 20%	-4 36%	-2 09%	-3 44%	-0 45%	0 01%	-1 80%
5/13/2020	-5 33%	-1 69%	-1 72%	-3 48%	-0 42%	-3 47%	-2 89%	-0 96%	-2 15%
5/14/2020	-1 46%	1 25%	1 41%	1 27%	0 90%	1 24%	3 23%	-0 14%	0 68%
5/15/2020	-0 99%	0 42%	2 41%	3 15%	2 00%	1 39%	1 04%	0 36%	1 49%
5/18/2020	9 42%	2 53%	3 13%	5 38%	1 21%	9 57%	2 10%	1 77%	0 95%
5/19/2020	-2 41%	-0 40%	-1 34%	-0 08%	-0 37%	0 33%	-0 68%	-2 05%	0 20%
5/20/2020	6 43%	2 16%	0 07%	0 65%	-0 61%	0 19%	1 76%	0 50%	3 85%
5/21/2020	2 36%	-1 40%	2 13%	6 41%	-0 93%	1 51%	-1 66%	-1 49%	0 12%
5/22/2020	-1 10%	0 42%	0 13%	-1 81%	-0 44%	0 93%	0 16%	0 64%	0 90%

Exhibit-5

Affected Companies' Peer Returns

January 28, 2020 through January 27, 2021

	AMC	BB	BBBY	EXPR	GME	KOSS	NOK	TR	TRVG
	Custom Peer Index	S&P 500 Information Technology Sector GICS Level 1 Index	S&P 500 Specialty Retail Industry GICS Level 3 Index	Dow Jones US Apparel Retailers Index	Dow Jones US Specialty Retailers Index	S&P 500 Household Durables Industry GICS Level 3 Index	S&P 500 Communications Equipment Industry GICS Level 3 Index	Dow Jones US Food Producers Index	S&P 500 Interactive Media & Services (Industry) Index
5/26/2020	6 72%	-0 12%	1 10%	2 98%	-0 58%	3 92%	0 23%	1 05%	-0 07%
5/27/2020	9 19%	0 54%	2 46%	1 74%	2 47%	4 60%	2 06%	2 54%	-0 57%
5/28/2020	-10 89%	-0 19%	-0 91%	-1 24%	-0 86%	-4 47%	-0 69%	0 48%	-0 77%
5/29/2020	-0 26%	1 18%	0 68%	-2 09%	1 63%	-0 77%	4 12%	1 01%	0 48%
6/1/2020	3 32%	0 02%	-0 19%	1 05%	0 39%	0 31%	-2 26%	0 62%	1 29%
6/2/2020	1 86%	0 93%	1 58%	0 98%	1 20%	1 54%	0 96%	0 26%	0 46%
6/3/2020	2 24%	0 83%	0 73%	2 22%	-0 14%	4 36%	0 68%	-0 71%	-0 41%
6/4/2020	1 98%	-0 84%	-1 34%	-0 52%	-1 68%	-1 70%	-0 15%	-0 35%	-1 74%
6/5/2020	4 77%	2 65%	2 56%	4 26%	1 40%	3 77%	2 27%	1 87%	1 90%
6/8/2020	8 14%	0 45%	0 47%	0 83%	0 13%	1 02%	0 68%	2 46%	0 54%
6/9/2020	-5 93%	0 49%	-0 71%	-2 00%	0 84%	-1 56%	-0 69%	-1 52%	1 44%
6/10/2020	-5 54%	1 68%	-1 15%	-2 74%	-0 09%	-0 82%	-1 17%	-0 96%	0 09%
6/11/2020	-11 11%	-5 98%	-5 07%	-4 99%	-2 87%	-8 71%	-8 06%	-4 82%	-4 77%
6/12/2020	3 46%	1 34%	0 82%	-0 25%	-0 59%	2 70%	3 09%	0 70%	1 16%
6/15/2020	-0 59%	0 87%	0 36%	-0 12%	1 92%	3 20%	0 31%	1 38%	1 00%
6/16/2020	-1 22%	2 14%	3 57%	5 22%	2 33%	2 71%	2 45%	2 19%	1 56%
6/17/2020	-3 89%	0 03%	0 45%	-1 64%	1 21%	-0 03%	-0 81%	-0 17%	0 26%
6/18/2020	3 08%	0 48%	-0 95%	-2 10%	0 24%	-1 75%	-0 71%	0 35%	-0 64%
6/19/2020	-7 42%	-0 75%	-1 02%	-1 18%	-0 26%	-0 96%	-1 21%	-0 77%	0 15%
6/22/2020	-0 15%	1 91%	0 88%	-0 22%	2 28%	0 10%	-0 16%	-0 25%	1 02%
6/23/2020	-0 73%	0 70%	0 19%	0 85%	-0 41%	1 06%	0 44%	-0 49%	0 98%
6/24/2020	-7 30%	-2 32%	-2 25%	-3 74%	-1 97%	-3 51%	-1 61%	-1 77%	-2 72%
6/25/2020	-3 10%	1 29%	-0 45%	-1 49%	1 07%	0 05%	0 95%	0 61%	0 62%
6/26/2020	-6 62%	-2 03%	-1 53%	-2 14%	-2 76%	-1 61%	1 86%	-2 07%	-6 90%
6/29/2020	3 28%	1 10%	2 30%	2 62%	1 30%	2 99%	-0 42%	1 86%	2 34%
6/30/2020	-0 35%	1 90%	1 05%	-0 16%	0 84%	1 57%	1 14%	1 17%	1 97%
7/1/2020	7 17%	0 10%	-0 05%	0 88%	3 39%	-2 31%	-1 39%	-0 69%	2 82%
7/2/2020	-4 92%	0 53%	0 35%	0 84%	-0 79%	0 50%	-0 13%	0 59%	0 44%
7/6/2020	4 40%	1 79%	0 51%	1 58%	1 52%	2 92%	1 61%	0 51%	2 42%
7/7/2020	-2 93%	-1 06%	-1 39%	-3 60%	-0 41%	-0 58%	-2 00%	-0 08%	-0 28%
7/8/2020	5 25%	1 59%	0 45%	0 49%	1 00%	2 35%	0 43%	-0 52%	1 05%
7/9/2020	-0 70%	0 38%	-0 80%	-1 96%	0 27%	-3 79%	1 88%	-1 57%	0 75%
7/10/2020	2 12%	-0 03%	1 10%	1 78%	3 87%	1 74%	-0 37%	2 43%	1 07%
7/13/2020	-3 47%	-2 14%	-0 56%	-1 55%	-2 71%	-1 62%	-1 25%	0 01%	-2 16%
7/14/2020	-2 34%	1 20%	1 97%	-1 91%	1 15%	3 08%	0 94%	2 29%	0 50%
7/15/2020	14 03%	0 54%	1 41%	5 06%	0 76%	2 24%	0 45%	0 31%	-0 06%
7/16/2020	-0 68%	-1 23%	0 53%	1 56%	0 51%	1 84%	-1 05%	0 51%	0 13%
7/17/2020	-1 15%	0 48%	0 51%	-0 46%	-3 25%	0 03%	2 09%	0 80%	0 20%
7/20/2020	-3 43%	2 55%	-0 29%	-1 96%	1 41%	-0 15%	0 45%	-1 29%	2 48%
7/21/2020	-1 31%	-1 07%	1 19%	2 42%	-0 72%	-0 23%	0 39%	1 16%	-0 87%
7/22/2020	-1 27%	0 82%	1 57%	0 69%	1 33%	3 88%	0 18%	0 61%	0 07%
7/23/2020	-0 60%	-2 66%	-0 61%	-0 14%	-1 53%	0 53%	1 17%	1 12%	-3 06%
7/24/2020	-2 78%	-1 19%	0 05%	-1 31%	0 25%	0 00%	-1 97%	-0 55%	-0 60%
7/27/2020	-0 38%	1 60%	0 49%	-1 02%	1 54%	3 74%	1 59%	0 76%	1 20%
7/28/2020	1 46%	-1 23%	-0 61%	0 01%	-0 96%	-2 27%	-2 42%	-0 15%	-1 67%
7/29/2020	-8 78%	1 49%	0 88%	3 12%	0 57%	2 25%	1 17%	0 85%	1 37%
7/30/2020	3 39%	0 54%	0 53%	-1 26%	0 79%	-0 30%	-0 53%	-1 03%	0 65%
7/31/2020	-1 22%	2 48%	-0 24%	0 38%	-0 04%	-0 86%	1 45%	-0 33%	1 10%
8/3/2020	0 29%	2 46%	0 25%	-0 62%	1 61%	1 10%	0 03%	0 65%	-0 54%
8/4/2020	2 90%	0 22%	0 62%	1 49%	1 49%	-0 44%	0 99%	0 90%	-0 71%
8/5/2020	-3 32%	0 35%	0 07%	0 69%	-0 35%	1 54%	-1 10%	-0 71%	0 19%
8/6/2020	-7 18%	1 46%	0 27%	-0 99%	1 08%	-0 09%	1 17%	0 38%	3 59%
8/7/2020	4 51%	-1 51%	1 08%	2 87%	-1 38%	0 26%	-0 66%	0 57%	0 23%
8/10/2020	0 09%	-0 33%	1 17%	2 41%	-0 88%	1 88%	0 18%	0 33%	-0 82%
8/11/2020	6 74%	-1 80%	0 15%	1 44%	-1 60%	-0 61%	-1 02%	-0 66%	-1 70%
8/12/2020	-3 67%	2 29%	1 77%	0 54%	1 78%	1 64%	1 58%	1 24%	1 61%
8/13/2020	3 23%	0 05%	-0 20%	-1 06%	0 60%	0 14%	-9 33%	-0 11%	0 64%
8/14/2020	5 19%	-0 10%	0 03%	1 03%	0 55%	-0 07%	-0 57%	0 11%	-0 44%
8/17/2020	0 86%	0 67%	2 41%	2 75%	0 68%	2 03%	-0 65%	0 47%	0 41%
8/18/2020	-9 56%	0 39%	-1 07%	-3 09%	0 80%	0 00%	0 02%	0 38%	1 69%
8/19/2020	1 53%	-0 22%	-1 03%	-3 57%	-0 53%	-0 10%	-0 14%	-0 65%	-0 33%
8/20/2020	6 88%	1 43%	-1 12%	-3 29%	0 62%	-0 14%	0 88%	-0 11%	2 19%
8/21/2020	-0 45%	1 21%	0 91%	-0 04%	0 12%	1 53%	-0 04%	-0 05%	-0 32%
8/24/2020	9 61%	0 87%	1 69%	2 72%	0 23%	0 46%	-0 01%	0 96%	1 03%
8/25/2020	0 22%	0 52%	-0 24%	0 37%	-0 18%	-0 89%	-0 39%	0 08%	2 12%
8/26/2020	-2 03%	2 03%	1 29%	-0 04%	5 25%	-0 75%	0 52%	0 31%	4 73%
8/27/2020	6 98%	0 03%	-0 92%	0 98%	-2 67%	-0 90%	-0 20%	0 28%	-2 10%
8/28/2020	5 15%	0 96%	-0 01%	2 12%	-0 42%	0 02%	0 03%	-0 09%	0 46%
8/31/2020	-3 41%	0 36%	-0 46%	-1 31%	0 36%	-1 12%	0 37%	0 06%	-0 44%
9/1/2020	-0 25%	1 84%	0 94%	1 05%	2 84%	1 90%	-0 50%	-0 73%	1 24%
9/2/2020	7 54%	0 93%	1 40%	2 52%	0 28%	0 72%	1 14%	1 51%	3 28%
9/3/2020	-2 00%	-6 00%	-3 77%	-1 57%	-4 07%	-3 80%	-3 60%	-1 85%	-4 63%
9/4/2020	1 25%	-1 35%	-1 62%	-0 08%	-1 56%	-1 62%	-0 43%	0 15%	-3 04%
9/8/2020	-8 44%	-4 69%	-0 60%	0 17%	-1 50%	-0 41%	-1 90%	-3 21%	-3 92%
9/9/2020	-3 34%	3 29%	2 04%	-1 19%	0 49%	2 45%	0 55%	1 33%	1 34%
9/10/2020	-6 33%	-2 29%	-1 45%	-1 83%	-2 21%	-0 36%	-1 61%	-0 94%	-1 73%
9/11/2020	-5 82%	-0 75%	1 01%	-0 25%	0 22%	1 99%	0 85%	0 30%	-0 63%
9/14/2020	0 00%	2 05%	1 75%	2 83%	0 14%	1 78%	1 23%	0 87%	-0 24%
9/15/2020	2 19%	0 99%	1 49%	1 28%	1 87%	-1 64%	0 51%	0 18%	1 87%
9/16/2020	0 62%	-1 57%	-0 81%	1 61%	-1 32%	2 51%	-0 26%	-0 22%	-2 14%
9/17/2020	-3 42%	-0 85%	-1 09%	-1 95%	-1 58%	-0 96%	-0 09%	-0 94%	-2 34%
9/18/2020	-1 89%	-1 67%	-1 34%	-0 50%	0 17%	-1 00%	-1 23%	-1 14%	-1 72%

Exhibit-5

Affected Companies' Peer Returns

January 28, 2020 through January 27, 2021

	AMC	BB	BBBY	EXPR	GME	KOSS	NOK	TR	TRVG
	Custom Peer Index	S&P 500 Information Technology Sector GICS Level 1 Index	S&P 500 Specialty Retail Industry GICS Level 3 Index	Dow Jones US Apparel Retailers Index	Dow Jones US Specialty Retailers Index	S&P 500 Household Durables Industry GICS Level 3 Index	S&P 500 Communications Equipment Industry GICS Level 3 Index	Dow Jones US Food Producers Index	S&P 500 Interactive Media & Services (Industry) Index
9/21/2020	-4 35%	0 77%	-1 30%	-2 71%	0 70%	-2 01%	-2 13%	-1 14%	-1 71%
9/22/2020	1 25%	1 63%	0 55%	-0 02%	1 51%	2 67%	1 04%	0 13%	2 48%
9/23/2020	-7 12%	-3 26%	-2 10%	-2 30%	-2 87%	-3 83%	-2 69%	-2 36%	-2 78%
9/24/2020	-4 23%	0 62%	-0 68%	-0 64%	-0 55%	0 65%	-0 93%	1 30%	0 50%
9/25/2020	4 35%	2 37%	0 84%	0 91%	1 35%	-0 05%	1 50%	1 48%	1 54%
9/28/2020	-0 94%	1 84%	2 18%	3 91%	1 94%	3 45%	1 84%	1 09%	1 10%
9/29/2020	-3 51%	-0 30%	-0 55%	-2 05%	-0 06%	-1 22%	0 08%	-0 51%	1 05%
9/30/2020	0 97%	0 90%	1 95%	2 22%	0 96%	1 86%	0 40%	1 55%	0 01%
10/1/2020	-0 72%	0 97%	0 73%	2 20%	3 46%	1 50%	-0 46%	0 71%	1 67%
10/2/2020	-0 89%	-2 58%	0 27%	1 38%	-2 37%	0 73%	-1 13%	-0 09%	-2 30%
10/5/2020	-12 62%	2 24%	1 02%	0 50%	2 29%	0 35%	0 87%	0 95%	1 86%
10/6/2020	3 23%	-1 61%	-2 23%	-1 97%	-2 69%	-1 77%	-0 06%	-0 90%	-2 26%
10/7/2020	-1 41%	1 88%	2 07%	2 86%	3 29%	1 29%	2 14%	0 87%	0 22%
10/8/2020	3 24%	0 45%	0 85%	0 25%	0 43%	2 81%	1 25%	0 61%	1 85%
10/9/2020	-2 36%	1 54%	0 38%	-0 02%	0 63%	0 22%	0 53%	0 75%	1 17%
10/12/2020	2 05%	2 68%	0 23%	-0 37%	0 19%	0 27%	1 11%	1 52%	3 82%
10/13/2020	-7 02%	-0 63%	0 89%	-0 91%	1 97%	-0 82%	-1 35%	0 02%	0 09%
10/14/2020	0 29%	-0 55%	-0 80%	-0 32%	-1 55%	0 28%	0 35%	-0 30%	-0 82%
10/15/2020	-0 78%	-0 45%	0 67%	0 63%	0 88%	0 88%	0 54%	0 52%	-1 07%
10/16/2020	-0 19%	-0 28%	-0 04%	-1 13%	-1 14%	-0 87%	0 29%	-0 41%	0 35%
10/19/2020	3 86%	-1 89%	-1 53%	-2 79%	-0 56%	-2 25%	-1 83%	-1 11%	-2 10%
10/20/2020	1 88%	0 38%	0 65%	0 18%	-0 67%	1 21%	-0 38%	-0 40%	1 75%
10/21/2020	0 25%	-0 13%	-0 67%	-0 17%	-3 65%	-2 97%	-0 40%	-0 17%	3 16%
10/22/2020	5 81%	-0 47%	-0 80%	2 06%	-1 05%	-2 29%	-0 50%	0 56%	0 68%
10/23/2020	-0 03%	-0 12%	0 90%	2 08%	0 75%	2 29%	0 45%	0 29%	1 88%
10/26/2020	-4 73%	-2 19%	-2 71%	-3 41%	-1 31%	-3 26%	-2 70%	-2 04%	-2 93%
10/27/2020	-0 94%	0 52%	-0 58%	-0 50%	-0 22%	-1 82%	-1 24%	-0 69%	1 51%
10/28/2020	-1 20%	-4 43%	-2 77%	-4 71%	-1 07%	-1 18%	-3 43%	-2 93%	-5 65%
10/29/2020	0 21%	1 89%	0 14%	1 16%	1 29%	-0 01%	-0 35%	0 09%	3 93%
10/30/2020	-1 49%	-2 46%	-1 12%	-1 64%	-3 02%	0 23%	0 17%	-1 03%	-1 08%
11/2/2020	-0 43%	0 34%	1 71%	1 99%	1 57%	4 22%	0 58%	2 30%	-0 11%
11/3/2020	4 02%	1 79%	2 66%	3 28%	1 96%	1 45%	2 86%	0 85%	1 51%
11/4/2020	-1 53%	3 76%	1 07%	-0 69%	1 09%	3 40%	-0 61%	-0 27%	6 63%
11/5/2020	5 70%	3 09%	1 15%	2 38%	2 32%	0 34%	1 69%	1 16%	1 55%
11/6/2020	-1 07%	0 34%	-0 51%	-1 31%	0 33%	-2 18%	1 14%	0 08%	-0 27%
11/9/2020	29 75%	-0 71%	-2 09%	11 08%	-5 60%	-4 94%	2 13%	0 01%	-1 94%
11/10/2020	2 46%	-1 96%	1 73%	1 48%	1 40%	3 99%	0 71%	1 51%	-1 70%
11/11/2020	-0 78%	2 39%	0 08%	-3 66%	1 48%	1 07%	1 61%	0 97%	0 99%
11/12/2020	-5 41%	-0 94%	-0 71%	-0 87%	-1 02%	-2 08%	-1 46%	-0 67%	-0 35%
11/13/2020	7 27%	0 85%	0 80%	1 55%	0 05%	2 65%	5 55%	1 11%	1 25%
11/16/2020	4 28%	0 97%	1 36%	2 59%	0 16%	1 29%	2 40%	1 42%	0 34%
11/17/2020	3 28%	-0 55%	-1 55%	0 17%	-0 36%	-0 15%	-1 41%	-0 67%	-0 93%
11/18/2020	0 86%	-1 06%	-1 79%	0 97%	-0 12%	0 29%	-1 51%	-1 15%	-1 16%
11/19/2020	-2 57%	0 84%	0 61%	0 25%	0 86%	-0 07%	0 01%	0 25%	0 75%
11/20/2020	0 74%	-1 05%	-0 50%	-1 08%	0 34%	-0 23%	-0 62%	-0 84%	-1 16%
11/23/2020	5 13%	-0 03%	1 11%	0 93%	-0 15%	2 14%	1 42%	0 31%	-0 45%
11/24/2020	5 69%	1 38%	1 07%	3 09%	1 10%	-0 65%	2 10%	1 21%	2 41%
11/25/2020	-2 22%	0 22%	-0 60%	-2 55%	0 23%	0 48%	-0 25%	-0 48%	-0 08%
11/27/2020	1 19%	0 51%	0 32%	-0 01%	0 75%	0 02%	0 51%	0 16%	1 06%
11/30/2020	-6 99%	0 66%	0 11%	-0 59%	-0 57%	-1 98%	0 30%	-0 08%	-1 22%
12/1/2020	4 16%	1 40%	0 41%	2 51%	1 99%	-1 08%	0 92%	0 93%	2 62%
12/2/2020	3 75%	-0 21%	-1 06%	0 41%	-1 10%	-2 65%	0 58%	-1 13%	1 14%
12/3/2020	-19 40%	-0 10%	-0 15%	1 15%	-0 41%	3 51%	0 30%	1 13%	-0 80%
12/4/2020	6 71%	1 01%	-0 65%	1 28%	0 22%	-0 63%	0 55%	0 96%	-0 24%
12/7/2020	-3 60%	0 26%	-0 28%	-0 71%	1 32%	1 72%	0 15%	-1 01%	0 54%
12/8/2020	6 63%	0 35%	-0 65%	-0 04%	-0 80%	-2 68%	0 33%	0 63%	-0 42%
12/9/2020	1 26%	-1 90%	2 17%	1 21%	-1 35%	-0 48%	0 47%	-0 36%	-1 88%
12/10/2020	-0 05%	0 08%	-0 26%	-0 57%	0 26%	-0 33%	-0 69%	-0 53%	-0 25%
12/11/2020	5 07%	-0 22%	-0 51%	-0 96%	0 03%	0 14%	-0 20%	0 31%	-0 25%
12/14/2020	-3 92%	0 42%	0 13%	-1 37%	1 68%	0 17%	-0 33%	-0 45%	-0 64%
12/15/2020	3 75%	1 60%	1 44%	2 18%	0 84%	0 71%	1 18%	0 22%	0 51%
12/16/2020	-1 88%	0 74%	0 47%	-0 28%	1 19%	-0 03%	0 01%	-0 39%	-0 08%
12/17/2020	3 89%	0 75%	0 99%	1 80%	1 02%	3 33%	0 38%	1 12%	-0 68%
12/18/2020	-1 14%	-0 33%	-0 59%	-0 06%	-0 48%	0 51%	1 20%	0 02%	-0 20%
12/21/2020	-0 23%	0 07%	0 26%	-0 50%	-0 05%	-0 96%	-1 33%	-0 75%	-0 28%
12/22/2020	-2 13%	0 86%	-0 38%	-0 19%	-0 23%	0 50%	-0 07%	-0 74%	-1 31%
12/23/2020	6 20%	-0 85%	-0 07%	1 10%	-1 71%	-0 83%	-0 55%	0 95%	0 41%
12/24/2020	-0 10%	0 74%	0 17%	-0 52%	0 09%	1 43%	0 32%	0 30%	0 10%
12/28/2020	3 17%	1 16%	0 05%	2 39%	-0 16%	-1 34%	0 79%	0 33%	2 67%
12/29/2020	2 01%	-0 52%	-0 96%	-0 68%	0 70%	-0 81%	-0 79%	-0 30%	-0 60%
12/30/2020	2 47%	-0 02%	0 11%	0 69%	-0 45%	0 47%	-0 22%	-0 07%	-1 37%
12/31/2020	-2 19%	0 30%	0 01%	-0 09%	1 14%	-1 29%	0 74%	0 66%	0 66%
1/4/2021	-5 69%	-1 79%	-0 83%	-2 49%	-1 66%	-1 69%	-1 05%	-0 83%	-1 43%
1/5/2021	2 82%	0 70%	0 43%	0 22%	0 20%	-0 55%	0 17%	0 31%	0 71%
1/6/2021	2 92%	-1 82%	2 18%	4 43%	0 48%	0 37%	1 05%	1 01%	-1 51%
1/7/2021	-1 01%	2 62%	0 25%	0 43%	1 71%	2 40%	1 25%	-0 61%	2 50%
1/8/2021	1 67%	0 75%	0 88%	0 41%	0 41%	-1 58%	0 88%	-0 22%	0 53%
1/11/2021	-2 76%	-0 94%	0 34%	-1 30%	-0 57%	1 26%	0 35%	-1 27%	-3 06%
1/12/2021	3 55%	-0 43%	1 57%	0 51%	1 18%	1 22%	1 08%	-0 57%	-1 56%
1/13/2021	-0 22%	0 65%	-0 77%	-1 15%	0 89%	0 17%	-0 92%	0 47%	0 40%
1/14/2021	6 11%	-0 95%	-0 99%	-0 74%	-0 40%	-0 04%	-0 18%	0 63%	-1 48%
1/15/2021	-0 58%	-0 98%	1 20%	0 16%	-1 20%	0 45%	0 62%	-0 01%	0 68%

Exhibit-5

Affected Companies' Peer Returns

January 28, 2020 through January 27, 2021

	AMC	BB	BBBY	EXPR	GME	KOSS	NOK	TR	TRVG
	Custom Peer Index	S&P 500 Information Technology Sector GICS Level 1 Index	S&P 500 Specialty Retail Industry GICS Level 3 Index	Dow Jones US Apparel Retailers Index	Dow Jones US Specialty Retailers Index	S&P 500 Household Durables Industry GICS Level 3 Index	S&P 500 Communications Equipment Industry GICS Level 3 Index	Dow Jones US Food Producers Index	S&P 500 Interactive Media & Services (Industry) Index
1/19/2021	1 68%	1 30%	-0 69%	-1 64%	-0 15%	2 00%	-0 44%	-0 07%	3 36%
1/20/2021	-0 73%	2 00%	0 75%	1 17%	6 89%	3 10%	0 37%	0 32%	4 17%
1/21/2021	-2 95%	1 31%	0 84%	0 12%	-0 15%	1 21%	-0 40%	-0 73%	0 84%
1/22/2021	3 81%	-0 32%	0 19%	-1 41%	-1 32%	0 96%	-0 42%	0 34%	0 55%
1/25/2021	6 10%	0 87%	-0 14%	-1 13%	-1 09%	1 13%	0 47%	1 61%	0 46%
1/26/2021	-0 69%	0 01%	-0 61%	-1 58%	0 28%	-0 67%	0 40%	1 28%	1 11%
1/27/2021	4 22%	-1 94%	-3 23%	-2 93%	-4 93%	-1 91%	0 65%	-1 13%	-4 24%

Sources: CRSP & Bloomberg
Note: All returns are logarithmic returns

Exhibit-6a

AMC Regression Results

Estimation Period: January 28, 2020 through January 27, 2021

Regression Statistics	
R Squared	0.719
Adjusted R Squared	0.711
Standard Error	6.69%
Observations	253

	Coefficients	Standard Error	*t*- statistic
Intercept	-0.19%	0.43%	-0.45
Market Index	0.77	0.215	3.58
Custom Peer Index	0.71	0.066	10.86
2/28/2020	1.67%	6.72%	0.25
6/10/2020	9.54%	6.72%	1.42
8/7/2020	10.70%	6.72%	1.59
11/3/2020	4.36%	6.72%	0.65
1/27/2021	138.05%	6.75%	20.46

Exhibit-6b

BB Regression Results

Estimation Period: January 28, 2020 through January 27, 2021

Regression Statistics	
R Squared	0.400
Adjusted R Squared	0.382
Standard Error	4.30%
Observations	253

	Coefficients	Standard Error	*t*-statistic
Intercept	0.48%	0.27%	1.74
Market Index	0.68	0.385	1.76
S&P 500 Information Technology Sector GICS Level 1 Index	0.40	0.319	1.25
4/1/2020	-16.07%	4.35%	-3.69
6/25/2020	-3.18%	4.31%	-0.74
9/24/2020	-1.91%	4.31%	-0.44
12/18/2020	-17.47%	4.31%	-4.06
1/27/2021	30.26%	4.33%	6.99

Exhibit-6c

BBBY Regression Results

Estimation Period: January 28, 2020 through January 27, 2021

Regression Statistics	
R Squared	0.432
Adjusted R Squared	0.416
Standard Error	5.57%
Observations	253

	Coefficients	Standard Error	*t*-statistic
Intercept	0.24%	0.35%	0.67
Market Index	0.46	0.379	1.21
S&P 500 Specialty Retail Industry GICS Level 3 Index	0.92	0.306	3.00
4/16/2020	16.19%	5.59%	2.90
7/9/2020	-27.34%	5.59%	-4.89
10/1/2020	21.15%	5.59%	3.79
1/7/2021	-12.79%	5.61%	-2.28
1/27/2021	39.96%	5.60%	7.13

Exhibit-6d

EXPR Regression Results

Estimation Period: January 28, 2020 through January 27, 2021

Regression Statistics	
R Squared	0.485
Adjusted R Squared	0.470
Standard Error	8.93%
Observations	253

	Coefficients	Standard Error	*t*- statistic
Intercept	-0.02%	0.57%	-0.03
Market Index	0.00	0.430	0.00
Dow Jones US Apparel Retailers Index	1.34	0.297	4.52
3/11/2020	-1.32%	9.07%	-0.15
6/3/2020	-11.17%	8.96%	-1.25
8/26/2020	-4.46%	8.96%	-0.50
12/3/2020	-31.57%	8.96%	-3.52
1/27/2021	118.43%	8.98%	13.19

Exhibit-6e

GME Regression Results

Estimation Period: January 28, 2020 through January 27, 2021

Regression Statistics	
R Squared	0.327
Adjusted R Squared	0.308
Standard Error	8.84%
Observations	253

	Coefficients	Standard Error	*t*- statistic
Intercept	1.46%	0.56%	2.60
Market Index	1.09	0.422	2.59
Dow Jones US Specialty Retailers Index	0.02	0.402	0.06
3/27/2020	-2.14%	8.91%	-0.24
6/10/2020	1.46%	8.86%	0.17
9/10/2020	-16.23%	8.88%	-1.83
12/9/2020	-21.90%	8.87%	-2.47
1/27/2021	86.77%	8.97%	9.68

Exhibit-6f

KOSS Regression Results

Estimation Period: January 28, 2020 through January 27, 2021

Regression Statistics	
R Squared	0.654
Adjusted R Squared	0.644
Standard Error	8.20%
Observations	253

	Coefficients	Standard Error	*t*- statistic
Intercept	0.84%	0.52%	1.61
Market Index	0.46	0.428	1.06
S&P 500 Household Durables Industry GICS Level 3 Index	-0.03	0.282	-0.11
1/31/2020	-8.63%	8.23%	-1.05
5/8/2020	-10.89%	8.27%	-1.32
8/21/2020	-14.54%	8.23%	-1.77
10/30/2020	1.69%	8.24%	0.21
1/27/2021	176.03%	8.25%	21.33

Exhibit-6g

NOK Regression Results

Estimation Period: January 28, 2020 through January 27, 2021

Regression Statistics	
R Squared	0.692
Adjusted R Squared	0.683
Standard Error	2.18%
Observations	253

	Coefficients	Standard Error	*t*- statistic
Intercept	0.01%	0.14%	0.10
Market Index	0.95	0.115	8.28
S&P 500 Communications Equipment Industry GICS Level 3 Index	0.04	0.100	0.44
2/6/2020	3.85%	2.19%	1.76
4/30/2020	3.32%	2.19%	1.52
7/31/2020	6.65%	2.19%	3.03
10/29/2020	-19.97%	2.19%	-9.10
1/27/2021	34.91%	2.22%	15.74

Exhibit-6h

TR Regression Results

Estimation Period: January 28, 2020 through January 27, 2021

Regression Statistics	
R Squared	0.335
Adjusted R Squared	0.316
Standard Error	1.85%
Observations	253

	Coefficients	Standard Error	*t*- statistic
Intercept	0.06%	0.12%	0.53
Market Index	-0.39	0.113	-3.45
Dow Jones US Food Producers Index	0.93	0.132	7.06
2/13/2020	1.56%	1.85%	0.84
4/23/2020	0.15%	1.86%	0.08
7/24/2020	-4.44%	1.85%	-2.40
11/12/2020	-0.49%	1.85%	-0.26
1/27/2021	10.85%	1.86%	5.84

Exhibit-6i

TRVG Regression Results

Estimation Period: January 28, 2020 through January 27, 2021

Regression Statistics	
R Squared	0.401
Adjusted R Squared	0.384
Standard Error	4.34%
Observations	253

	Coefficients	Standard Error	*t*- statistic
Intercept	-0.15%	0.28%	-0.53
Market Index	1.22	0.232	5.25
S&P 500 Interactive Media & Services (Industry) Index	-0.23	0.198	-1.19
2/12/2020	-11.23%	4.35%	-2.58
5/19/2020	1.38%	4.36%	0.32
7/29/2020	7.54%	4.35%	1.73
11/3/2020	-0.99%	4.35%	-0.23
1/27/2021	44.02%	4.37%	10.06

Exhibit-7a

AMC Event Study Results

January 28, 2020 through January 27, 2021

Date	AMC LN Return	AMC Explained Return	AMC Residual Return	*t*-statistic[1]	
1/28/2020	6.54%	1.95%	4.59%	0.69	
1/29/2020	-0.29%	-0.81%	0.52%	0.08	
1/30/2020	1.03%	0.18%	0.85%	0.13	
1/31/2020	-4.79%	-3.77%	-1.02%	-0.15	
2/3/2020	-1.08%	-0.11%	-0.96%	-0.14	
2/4/2020	3.05%	1.18%	1.88%	0.28	
2/5/2020	5.13%	3.03%	2.10%	0.31	
2/6/2020	-3.64%	-0.65%	-2.98%	-0.45	
2/7/2020	-3.01%	-1.63%	-1.38%	-0.21	
2/10/2020	3.60%	0.43%	3.17%	0.47	
2/11/2020	2.19%	-0.02%	2.20%	0.33	
2/12/2020	-1.16%	0.56%	-1.72%	-0.26	
2/13/2020	2.02%	-0.96%	2.98%	0.45	
2/14/2020	1.42%	-0.31%	1.73%	0.26	
2/18/2020	-0.85%	0.65%	-1.50%	-0.22	
2/19/2020	3.76%	0.92%	2.84%	0.42	
2/20/2020	5.97%	0.65%	5.33%	0.80	
2/21/2020	-3.94%	-7.54%	3.60%	0.54	
2/24/2020	-5.65%	-3.84%	-1.81%	-0.27	
2/25/2020	-7.36%	-6.42%	-0.94%	-0.14	
2/26/2020	-9.94%	-4.30%	-5.65%	-0.84	
2/27/2020	2.66%	-4.22%	6.88%	1.03	
2/28/2020	2.75%	1.09%	1.67%	0.25	
3/2/2020	-2.43%	0.17%	-2.59%	-0.39	
3/3/2020	-5.03%	-3.61%	-1.43%	-0.21	
3/4/2020	0.17%	2.94%	-2.77%	-0.41	
3/5/2020	-16.80%	-5.14%	-11.66%	-1.74	
3/6/2020	-7.60%	-0.18%	-7.42%	-1.11	
3/9/2020	-16.26%	-13.37%	-2.89%	-0.43	
3/10/2020	8.70%	6.64%	2.06%	0.31	
3/11/2020	-14.31%	-11.29%	-3.02%	-0.45	
3/12/2020	-22.38%	-28.49%	6.10%	0.91	
3/13/2020	10.12%	6.65%	3.47%	0.52	
3/16/2020	-21.39%	-32.52%	11.13%	1.66	
3/17/2020	-4.73%	-19.82%	15.09%	2.25	*
3/18/2020	-0.40%	-7.35%	6.94%	1.04	

Exhibit-7a

AMC Event Study Results

January 28, 2020 through January 27, 2021

Date	AMC LN Return	AMC Explained Return	AMC Residual Return	*t*-statistic[1]	
3/19/2020	31.07%	37.86%	-6.80%	-1.01	
3/20/2020	-5.49%	-4.91%	-0.58%	-0.09	
3/23/2020	-1.26%	1.65%	-2.91%	-0.43	
3/24/2020	12.24%	3.55%	8.69%	1.30	
3/25/2020	-2.85%	0.05%	-2.89%	-0.43	
3/26/2020	6.71%	8.62%	-1.91%	-0.29	
3/27/2020	-2.74%	-6.80%	4.06%	0.61	
3/30/2020	-16.91%	-9.21%	-7.70%	-1.15	
3/31/2020	3.87%	0.61%	3.26%	0.49	
4/1/2020	-18.74%	-16.84%	-1.90%	-0.28	
4/2/2020	-15.67%	4.65%	-20.32%	-3.04	*
4/3/2020	1.33%	-0.02%	1.35%	0.20	
4/6/2020	23.80%	11.02%	12.78%	1.91	
4/7/2020	8.64%	7.66%	0.98%	0.15	
4/8/2020	4.97%	4.87%	0.10%	0.01	
4/9/2020	-23.84%	6.87%	-30.71%	-4.59	*
4/13/2020	-22.31%	-9.16%	-13.16%	-1.97	*
4/14/2020	4.70%	5.08%	-0.38%	-0.06	
4/15/2020	10.03%	-2.39%	12.42%	1.86	
4/16/2020	1.24%	0.67%	0.57%	0.08	
4/17/2020	27.12%	11.16%	15.95%	2.38	*
4/20/2020	-0.63%	0.30%	-0.93%	-0.14	
4/21/2020	2.18%	-2.95%	5.13%	0.77	
4/22/2020	-2.18%	-3.57%	1.39%	0.21	
4/23/2020	-2.23%	1.29%	-3.51%	-0.52	
4/24/2020	-1.95%	-2.46%	0.51%	0.08	
4/27/2020	9.68%	6.10%	3.58%	0.54	
4/28/2020	20.88%	4.82%	16.05%	2.40	*
4/29/2020	22.60%	6.83%	15.77%	2.36	*
4/30/2020	-5.34%	-6.70%	1.36%	0.20	
5/1/2020	-7.38%	-4.93%	-2.45%	-0.37	
5/4/2020	-6.09%	1.24%	-7.33%	-1.09	
5/5/2020	-10.02%	-1.62%	-8.40%	-1.25	
5/6/2020	0.77%	-2.82%	3.59%	0.54	
5/7/2020	1.77%	4.75%	-2.98%	-0.44	
5/8/2020	2.72%	3.70%	-0.98%	-0.15	

Exhibit-7a

AMC Event Study Results

January 28, 2020 through January 27, 2021

Date	AMC LN Return	AMC Explained Return	AMC Residual Return	*t*-statistic[1]	
5/11/2020	26.05%	-2.22%	28.27%	4.22	*
5/12/2020	-3.83%	-4.23%	0.39%	0.06	
5/13/2020	-10.71%	-5.46%	-5.25%	-0.78	
5/14/2020	-1.09%	-0.44%	-0.66%	-0.10	
5/15/2020	-0.66%	-0.49%	-0.17%	-0.03	
5/18/2020	4.33%	9.04%	-4.71%	-0.70	
5/19/2020	-3.45%	-2.66%	-0.79%	-0.12	
5/20/2020	2.17%	5.71%	-3.54%	-0.53	
5/21/2020	-0.65%	0.98%	-1.62%	-0.24	
5/22/2020	-1.09%	-0.77%	-0.32%	-0.05	
5/26/2020	10.95%	5.68%	5.27%	0.79	
5/27/2020	9.16%	7.50%	1.66%	0.25	
5/28/2020	-9.94%	-8.21%	-1.73%	-0.26	
5/29/2020	1.18%	-0.01%	1.19%	0.18	
6/1/2020	3.45%	2.68%	0.77%	0.11	
6/2/2020	5.14%	1.78%	3.36%	0.50	
6/3/2020	-2.54%	2.54%	-5.08%	-0.76	
6/4/2020	-1.29%	0.99%	-2.28%	-0.34	
6/5/2020	9.40%	5.11%	4.29%	0.64	
6/8/2020	8.74%	6.69%	2.05%	0.31	
6/9/2020	-7.40%	-5.14%	-2.25%	-0.34	
6/10/2020	4.89%	-4.65%	9.54%	1.42	
6/11/2020	-19.61%	-12.71%	-6.90%	-1.03	
6/12/2020	13.04%	3.35%	9.69%	1.45	
6/15/2020	-1.54%	0.21%	-1.75%	-0.26	
6/16/2020	-4.23%	0.29%	-4.52%	-0.67	
6/17/2020	-2.55%	-3.28%	0.73%	0.11	
6/18/2020	3.80%	2.09%	1.71%	0.26	
6/19/2020	-1.97%	-5.83%	3.85%	0.58	
6/22/2020	-3.50%	0.22%	-3.72%	-0.56	
6/23/2020	-4.41%	-0.41%	-4.00%	-0.60	
6/24/2020	-6.27%	-7.39%	1.12%	0.17	
6/25/2020	-11.49%	-1.53%	-9.96%	-1.49	
6/26/2020	-2.13%	-6.68%	4.55%	0.68	
6/29/2020	5.58%	3.25%	2.33%	0.35	
6/30/2020	-2.99%	0.68%	-3.67%	-0.55	

Exhibit-7a

AMC Event Study Results

January 28, 2020 through January 27, 2021

Date	AMC LN Return	AMC Explained Return	AMC Residual Return	*t*-statistic[1]
7/1/2020	6.32%	5.22%	1.10%	0.16
7/2/2020	-0.88%	-3.31%	2.43%	0.36
7/6/2020	-5.68%	4.08%	-9.76%	-1.46
7/7/2020	-3.57%	-3.07%	-0.50%	-0.07
7/8/2020	7.01%	4.19%	2.82%	0.42
7/9/2020	3.11%	-1.13%	4.24%	0.63
7/10/2020	0.65%	2.12%	-1.46%	-0.22
7/13/2020	-7.68%	-3.53%	-4.15%	-0.62
7/14/2020	-0.94%	-0.84%	-0.10%	-0.02
7/15/2020	6.42%	10.70%	-4.28%	-0.64
7/16/2020	-2.70%	-0.98%	-1.72%	-0.26
7/17/2020	-2.54%	-0.73%	-1.81%	-0.27
7/20/2020	-2.85%	-1.98%	-0.87%	-0.13
7/21/2020	0.00%	-0.95%	0.95%	0.14
7/22/2020	-2.93%	-0.70%	-2.23%	-0.33
7/23/2020	0.74%	-1.46%	2.21%	0.33
7/24/2020	-1.49%	-2.71%	1.22%	0.18
7/27/2020	-3.30%	0.23%	-3.53%	-0.53
7/28/2020	6.99%	0.31%	6.67%	1.00
7/29/2020	0.24%	-5.42%	5.66%	0.84
7/30/2020	-0.97%	1.93%	-2.90%	-0.43
7/31/2020	-1.96%	-0.71%	-1.25%	-0.19
8/3/2020	1.72%	0.68%	1.04%	0.16
8/4/2020	-0.24%	2.22%	-2.46%	-0.37
8/5/2020	1.21%	-1.98%	3.19%	0.48
8/6/2020	-0.24%	-4.95%	4.71%	0.70
8/7/2020	13.74%	3.04%	10.70%	1.60
8/10/2020	-6.08%	0.08%	-6.15%	-0.92
8/11/2020	1.99%	3.99%	-2.00%	-0.30
8/12/2020	1.74%	-1.81%	3.55%	0.53
8/13/2020	13.49%	2.06%	11.43%	1.71
8/14/2020	4.24%	3.45%	0.79%	0.12
8/17/2020	1.08%	0.81%	0.27%	0.04
8/18/2020	-4.57%	-6.89%	2.32%	0.35
8/19/2020	0.74%	0.56%	0.18%	0.03
8/20/2020	5.42%	4.92%	0.49%	0.07

Exhibit-7a

AMC Event Study Results

January 28, 2020 through January 27, 2021

Date	AMC LN Return	AMC Explained Return	AMC Residual Return	*t*-statistic[1]
8/21/2020	-9.20%	-0.39%	-8.81%	-1.32
8/24/2020	4.15%	7.33%	-3.18%	-0.48
8/25/2020	2.37%	0.23%	2.15%	0.32
8/26/2020	1.08%	-0.97%	2.04%	0.31
8/27/2020	15.21%	4.91%	10.30%	1.54
8/28/2020	-3.43%	4.01%	-7.44%	-1.11
8/31/2020	-6.90%	-2.74%	-4.16%	-0.62
9/1/2020	3.18%	0.28%	2.90%	0.43
9/2/2020	14.82%	6.10%	8.72%	1.30
9/3/2020	-6.45%	-4.27%	-2.18%	-0.33
9/4/2020	6.17%	0.07%	6.10%	0.91
9/8/2020	-8.93%	-8.29%	-0.65%	-0.10
9/9/2020	-2.52%	-1.06%	-1.47%	-0.22
9/10/2020	-5.25%	-5.90%	0.66%	0.10
9/11/2020	-2.56%	-4.35%	1.79%	0.27
9/14/2020	-4.41%	0.99%	-5.40%	-0.81
9/15/2020	-0.36%	1.78%	-2.14%	-0.32
9/16/2020	4.26%	0.01%	4.24%	0.63
9/17/2020	-0.70%	-3.24%	2.54%	0.38
9/18/2020	-0.88%	-2.22%	1.34%	0.20
9/21/2020	-6.37%	-4.26%	-2.11%	-0.32
9/22/2020	-2.09%	1.41%	-3.50%	-0.52
9/23/2020	-8.61%	-7.13%	-1.48%	-0.22
9/24/2020	-3.62%	-3.05%	-0.57%	-0.09
9/25/2020	5.69%	4.11%	1.59%	0.24
9/28/2020	0.61%	0.41%	0.21%	0.03
9/29/2020	-1.02%	-3.00%	1.97%	0.29
9/30/2020	-3.14%	1.03%	-4.17%	-0.62
10/1/2020	-1.28%	-0.10%	-1.18%	-0.18
10/2/2020	0.00%	-1.42%	1.42%	0.21
10/5/2020	-11.86%	-7.78%	-4.08%	-0.61
10/6/2020	-1.71%	1.19%	-2.90%	-0.43
10/7/2020	-0.49%	0.11%	-0.60%	-0.09
10/8/2020	2.45%	2.77%	-0.32%	-0.05
10/9/2020	-2.20%	-1.21%	-0.98%	-0.15
10/12/2020	0.74%	2.30%	-1.56%	-0.23

Exhibit-7a

AMC Event Study Results

January 28, 2020 through January 27, 2021

Date	AMC LN Return	AMC Explained Return	AMC Residual Return	*t*-statistic[1]	
10/13/2020	-14.20%	-5.57%	-8.63%	-1.29	
10/14/2020	-17.89%	-0.44%	-17.45%	-2.61	*
10/15/2020	-6.27%	-0.80%	-5.47%	-0.82	
10/16/2020	8.94%	-0.38%	9.32%	1.39	
10/19/2020	15.23%	1.46%	13.77%	2.06	*
10/20/2020	-13.60%	1.44%	-15.03%	-2.25	*
10/21/2020	-2.96%	-0.28%	-2.68%	-0.40	
10/22/2020	3.92%	4.42%	-0.49%	-0.07	
10/23/2020	-4.93%	0.08%	-5.01%	-0.75	
10/26/2020	-7.70%	-4.96%	-2.73%	-0.41	
10/27/2020	1.44%	-1.09%	2.54%	0.38	
10/28/2020	-6.67%	-3.61%	-3.06%	-0.46	
10/29/2020	-3.51%	0.76%	-4.27%	-0.64	
10/30/2020	-6.56%	-2.27%	-4.29%	-0.64	
11/2/2020	-9.32%	0.43%	-9.75%	-1.46	
11/3/2020	8.47%	4.11%	4.36%	0.65	
11/4/2020	-1.29%	0.21%	-1.50%	-0.22	
11/5/2020	6.29%	5.47%	0.82%	0.12	
11/6/2020	1.21%	-0.95%	2.17%	0.32	
11/9/2020	41.48%	21.80%	19.68%	2.94	*
11/10/2020	-7.15%	1.52%	-8.66%	-1.29	
11/11/2020	-11.46%	-0.13%	-11.33%	-1.69	
11/12/2020	-6.26%	-4.79%	-1.48%	-0.22	
11/13/2020	1.02%	6.00%	-4.99%	-0.74	
11/16/2020	4.61%	3.80%	0.81%	0.12	
11/17/2020	-4.27%	2.03%	-6.30%	-0.94	
11/18/2020	8.98%	-0.27%	9.25%	1.38	
11/19/2020	-2.17%	-1.57%	-0.60%	-0.09	
11/20/2020	4.89%	0.01%	4.89%	0.73	
11/23/2020	12.87%	4.07%	8.79%	1.31	
11/24/2020	18.41%	5.01%	13.39%	2.00	*
11/25/2020	-1.98%	-1.76%	-0.22%	-0.03	
11/27/2020	-0.89%	0.96%	-1.86%	-0.28	
11/30/2020	-4.13%	-5.61%	1.48%	0.22	
12/1/2020	-2.85%	3.51%	-6.36%	-0.95	
12/2/2020	4.01%	2.57%	1.44%	0.22	

Exhibit-7a

AMC Event Study Results

January 28, 2020 through January 27, 2021

Date	AMC LN Return	AMC Explained Return	AMC Residual Return	*t*-statistic[1]	
12/3/2020	-17.40%	-13.82%	-3.58%	-0.53	
12/4/2020	-3.36%	5.39%	-8.75%	-1.31	
12/7/2020	1.41%	-2.77%	4.18%	0.62	
12/8/2020	11.15%	4.86%	6.30%	0.94	
12/9/2020	-3.06%	-0.03%	-3.03%	-0.45	
12/10/2020	5.79%	-0.02%	5.81%	0.87	
12/11/2020	-4.25%	3.24%	-7.49%	-1.12	
12/14/2020	-20.61%	-3.23%	-17.37%	-2.60	*
12/15/2020	-10.92%	3.48%	-14.40%	-2.15	*
12/16/2020	-2.84%	-1.42%	-1.42%	-0.21	
12/17/2020	2.49%	3.19%	-0.70%	-0.10	
12/18/2020	-1.77%	-1.16%	-0.61%	-0.09	
12/21/2020	-4.38%	-0.58%	-3.80%	-0.57	
12/22/2020	-3.42%	-1.66%	-1.76%	-0.26	
12/23/2020	-1.17%	4.33%	-5.50%	-0.82	
12/24/2020	-1.97%	-0.08%	-1.89%	-0.28	
12/28/2020	-4.90%	2.36%	-7.26%	-1.08	
12/29/2020	-4.27%	0.96%	-5.24%	-0.78	
12/30/2020	-5.84%	1.82%	-7.67%	-1.15	
12/31/2020	-1.87%	-1.48%	-0.39%	-0.06	
1/4/2021	-5.33%	-5.25%	-0.08%	-0.01	
1/5/2021	-1.50%	2.51%	-4.01%	-0.60	
1/6/2021	1.50%	2.50%	-1.00%	-0.15	
1/7/2021	1.97%	0.34%	1.63%	0.24	
1/8/2021	4.30%	1.36%	2.94%	0.44	
1/11/2021	2.77%	-2.59%	5.36%	0.80	
1/12/2021	4.01%	2.66%	1.35%	0.20	
1/13/2021	-4.92%	-0.28%	-4.64%	-0.69	
1/14/2021	0.00%	4.15%	-4.15%	-0.62	
1/15/2021	6.65%	-1.26%	7.92%	1.18	
1/19/2021	27.25%	1.66%	25.59%	3.82	*
1/20/2021	-2.99%	0.21%	-3.19%	-0.48	
1/21/2021	0.34%	-2.36%	2.70%	0.40	
1/22/2021	16.37%	2.41%	13.96%	2.09	*
1/25/2021	23.05%	4.34%	18.71%	2.80	*
1/26/2021	11.53%	-0.91%	12.43%	1.86	

Exhibit-7a

AMC Event Study Results

January 28, 2020 through January 27, 2021

Date	AMC LN Return	AMC Explained Return	AMC Residual Return	*t*-statistic[1]	
1/27/2021	138.93%	0.88%	138.05%	20.62	*

Note:
[1] *t*-statistics marked with a "*" are significant at the 95% confidence level.
[2] All returns are logarithmic returns.

Exhibit-7b

BB Event Study Results

January 28, 2020 through January 27, 2021

Date	BB LN Return	BB Explained Return	BB Residual Return	*t*-statistic[1]	
1/28/2020	2.37%	1.86%	0.50%	0.12	
1/29/2020	-1.10%	0.48%	-1.58%	-0.37	
1/30/2020	-1.59%	1.02%	-2.61%	-0.61	
1/31/2020	-2.27%	-1.75%	-0.52%	-0.12	
2/3/2020	1.79%	1.51%	0.28%	0.06	
2/4/2020	-0.97%	2.50%	-3.47%	-0.81	
2/5/2020	0.81%	1.35%	-0.54%	-0.12	
2/6/2020	-1.14%	1.01%	-2.15%	-0.50	
2/7/2020	-1.81%	-0.26%	-1.55%	-0.36	
2/10/2020	0.50%	1.47%	-0.97%	-0.23	
2/11/2020	2.29%	0.57%	1.72%	0.40	
2/12/2020	-1.96%	1.33%	-3.29%	-0.76	
2/13/2020	-1.16%	0.31%	-1.47%	-0.34	
2/14/2020	-2.87%	0.79%	-3.66%	-0.85	
2/18/2020	4.36%	0.21%	4.16%	0.97	
2/19/2020	0.98%	1.28%	-0.30%	-0.07	
2/20/2020	0.16%	-0.10%	0.26%	0.06	
2/21/2020	-2.47%	-1.09%	-1.37%	-0.32	
2/24/2020	-4.25%	-3.41%	-0.84%	-0.20	
2/25/2020	-4.62%	-2.83%	-1.78%	-0.42	
2/26/2020	-0.55%	0.27%	-0.82%	-0.19	
2/27/2020	-6.22%	-4.53%	-1.69%	-0.39	
2/28/2020	0.58%	0.21%	0.37%	0.09	
3/2/2020	-1.76%	5.36%	-7.12%	-1.65	
3/3/2020	-3.00%	-2.75%	-0.25%	-0.06	
3/4/2020	-0.20%	4.65%	-4.85%	-1.13	
3/5/2020	-5.21%	-2.99%	-2.23%	-0.52	
3/6/2020	-5.05%	-1.55%	-3.50%	-0.81	
3/9/2020	-14.26%	-8.24%	-6.02%	-1.40	
3/10/2020	8.70%	5.96%	2.74%	0.64	
3/11/2020	-0.96%	-4.91%	3.95%	0.92	
3/12/2020	-11.72%	-10.53%	-1.19%	-0.28	
3/13/2020	16.87%	10.53%	6.34%	1.48	
3/16/2020	-25.62%	-14.00%	-11.63%	-2.70	*
3/17/2020	-15.61%	6.59%	-22.20%	-5.16	*
3/18/2020	9.22%	-5.55%	14.77%	3.43	*

Exhibit-7b

BB Event Study Results

January 28, 2020 through January 27, 2021

Date	BB LN Return	BB Explained Return	BB Residual Return	*t*-statistic[1]	
3/19/2020	2.48%	1.88%	0.61%	0.14	
3/20/2020	3.61%	-3.87%	7.49%	1.74	
3/23/2020	1.76%	-1.76%	3.52%	0.82	
3/24/2020	5.10%	10.31%	-5.21%	-1.21	
3/25/2020	3.79%	1.46%	2.33%	0.54	
3/26/2020	4.42%	6.71%	-2.29%	-0.53	
3/27/2020	-3.10%	-3.67%	0.57%	0.13	
3/30/2020	2.59%	4.07%	-1.47%	-0.34	
3/31/2020	5.47%	-1.12%	6.59%	1.53	
4/1/2020	-20.63%	-4.56%	-16.07%	-3.74	*
4/2/2020	-3.95%	2.69%	-6.64%	-1.54	
4/3/2020	-0.31%	-1.26%	0.95%	0.22	
4/6/2020	7.77%	8.27%	-0.51%	-0.12	
4/7/2020	3.67%	0.08%	3.58%	0.83	
4/8/2020	6.18%	3.81%	2.36%	0.55	
4/9/2020	-2.11%	1.71%	-3.81%	-0.89	
4/13/2020	2.62%	-0.13%	2.76%	0.64	
4/14/2020	3.56%	3.98%	-0.42%	-0.10	
4/15/2020	-7.80%	-1.98%	-5.82%	-1.35	
4/16/2020	8.05%	1.25%	6.79%	1.58	
4/17/2020	6.28%	2.87%	3.41%	0.79	
4/20/2020	-4.31%	-1.30%	-3.01%	-0.70	
4/21/2020	-4.25%	-3.20%	-1.05%	-0.24	
4/22/2020	-0.51%	3.45%	-3.96%	-0.92	
4/23/2020	2.78%	0.29%	2.49%	0.58	
4/24/2020	0.75%	2.18%	-1.44%	-0.33	
4/27/2020	5.30%	2.01%	3.29%	0.77	
4/28/2020	-1.18%	-0.24%	-0.94%	-0.22	
4/29/2020	3.73%	4.05%	-0.32%	-0.07	
4/30/2020	-2.08%	-0.60%	-1.49%	-0.35	
5/1/2020	-5.03%	-2.62%	-2.41%	-0.56	
5/4/2020	4.56%	1.36%	3.20%	0.74	
5/5/2020	0.23%	1.63%	-1.39%	-0.32	
5/6/2020	5.02%	0.37%	4.65%	1.08	
5/7/2020	2.42%	1.98%	0.44%	0.10	
5/8/2020	2.36%	2.30%	0.06%	0.02	

Exhibit-7b

BB Event Study Results

January 28, 2020 through January 27, 2021

Date	BB LN Return	BB Explained Return	BB Residual Return	*t*-statistic[1]
5/11/2020	-2.80%	0.72%	-3.52%	-0.82
5/12/2020	-1.76%	-1.77%	0.01%	0.00
5/13/2020	-0.89%	-1.50%	0.60%	0.14
5/14/2020	0.00%	1.67%	-1.67%	-0.39
5/15/2020	-0.90%	1.00%	-1.90%	-0.44
5/18/2020	1.57%	3.71%	-2.13%	-0.50
5/19/2020	0.00%	-0.34%	0.34%	0.08
5/20/2020	3.50%	2.50%	1.00%	0.23
5/21/2020	-2.39%	-0.53%	-1.86%	-0.43
5/22/2020	0.00%	0.82%	-0.82%	-0.19
5/26/2020	2.18%	1.38%	0.79%	0.18
5/27/2020	0.43%	1.70%	-1.27%	-0.29
5/28/2020	-1.73%	0.16%	-1.90%	-0.44
5/29/2020	1.30%	1.26%	0.04%	0.01
6/1/2020	5.86%	0.93%	4.93%	1.15
6/2/2020	8.57%	1.42%	7.15%	1.66
6/3/2020	-2.84%	1.81%	-4.65%	-1.08
6/4/2020	0.38%	-0.06%	0.45%	0.10
6/5/2020	4.49%	3.20%	1.28%	0.30
6/8/2020	5.69%	1.61%	4.07%	0.95
6/9/2020	-3.16%	0.02%	-3.18%	-0.74
6/10/2020	-0.72%	0.69%	-1.41%	-0.33
6/11/2020	-10.20%	-5.96%	-4.24%	-0.99
6/12/2020	4.28%	1.96%	2.33%	0.54
6/15/2020	-5.08%	1.54%	-6.62%	-1.54
6/16/2020	4.51%	2.51%	1.99%	0.46
6/17/2020	-2.33%	0.21%	-2.54%	-0.59
6/18/2020	-0.39%	0.75%	-1.14%	-0.27
6/19/2020	-0.39%	-0.13%	-0.26%	-0.06
6/22/2020	1.18%	1.69%	-0.51%	-0.12
6/23/2020	-0.39%	1.02%	-1.41%	-0.33
6/24/2020	-3.59%	-2.21%	-1.38%	-0.32
6/25/2020	-1.43%	1.75%	-3.18%	-0.74
6/26/2020	-2.72%	-1.90%	-0.82%	-0.19
6/29/2020	1.68%	1.89%	-0.21%	-0.05
6/30/2020	1.86%	2.22%	-0.36%	-0.08

Exhibit-7b

BB Event Study Results

January 28, 2020 through January 27, 2021

Date	BB LN Return	BB Explained Return	BB Residual Return	*t*-statistic[1]
7/1/2020	-2.28%	0.79%	-3.07%	-0.71
7/2/2020	1.45%	1.03%	0.43%	0.10
7/6/2020	3.45%	2.19%	1.26%	0.29
7/7/2020	-4.48%	-0.64%	-3.84%	-0.89
7/8/2020	0.83%	1.68%	-0.85%	-0.20
7/9/2020	-0.62%	0.24%	-0.86%	-0.20
7/10/2020	-1.68%	1.17%	-2.84%	-0.66
7/13/2020	-3.22%	-1.14%	-2.08%	-0.48
7/14/2020	0.00%	1.85%	-1.85%	-0.43
7/15/2020	2.80%	1.48%	1.31%	0.31
7/16/2020	-1.28%	-0.28%	-1.00%	-0.23
7/17/2020	3.17%	0.91%	2.26%	0.53
7/20/2020	3.88%	2.07%	1.81%	0.42
7/21/2020	-2.85%	0.21%	-3.05%	-0.71
7/22/2020	-1.24%	1.15%	-2.40%	-0.56
7/23/2020	-1.05%	-1.33%	0.28%	0.06
7/24/2020	-1.92%	-0.47%	-1.45%	-0.34
7/27/2020	0.86%	1.72%	-0.86%	-0.20
7/28/2020	-0.64%	-0.48%	-0.16%	-0.04
7/29/2020	4.41%	1.97%	2.44%	0.57
7/30/2020	-2.71%	0.44%	-3.14%	-0.73
7/31/2020	0.00%	1.77%	-1.77%	-0.41
8/3/2020	0.00%	2.04%	-2.04%	-0.47
8/4/2020	0.21%	0.87%	-0.66%	-0.15
8/5/2020	1.88%	1.12%	0.75%	0.18
8/6/2020	2.45%	1.37%	1.07%	0.25
8/7/2020	-2.45%	-0.11%	-2.34%	-0.54
8/10/2020	0.00%	0.53%	-0.53%	-0.12
8/11/2020	-1.04%	-0.78%	-0.26%	-0.06
8/12/2020	0.62%	2.26%	-1.64%	-0.38
8/13/2020	1.44%	0.46%	0.99%	0.23
8/14/2020	-1.86%	0.39%	-2.25%	-0.52
8/17/2020	0.21%	1.08%	-0.87%	-0.20
8/18/2020	-0.42%	0.73%	-1.15%	-0.27
8/19/2020	-0.21%	0.09%	-0.30%	-0.07
8/20/2020	1.04%	1.24%	-0.20%	-0.05

Exhibit-7b

BB Event Study Results

January 28, 2020 through January 27, 2021

Date	BB LN Return	BB Explained Return	BB Residual Return	*t*-statistic[1]
8/21/2020	-1.67%	1.07%	-2.74%	-0.64
8/24/2020	0.84%	1.42%	-0.59%	-0.14
8/25/2020	-0.21%	0.91%	-1.12%	-0.26
8/26/2020	6.09%	1.87%	4.21%	0.98
8/27/2020	-0.99%	0.60%	-1.59%	-0.37
8/28/2020	3.90%	1.32%	2.57%	0.60
8/31/2020	-0.19%	0.51%	-0.71%	-0.16
9/1/2020	6.67%	1.78%	4.89%	1.14
9/2/2020	-1.08%	1.66%	-2.74%	-0.64
9/3/2020	-6.36%	-4.25%	-2.10%	-0.49
9/4/2020	-1.36%	-0.61%	-0.75%	-0.17
9/8/2020	-3.59%	-3.23%	-0.36%	-0.08
9/9/2020	-0.20%	3.12%	-3.32%	-0.77
9/10/2020	-2.47%	-1.50%	-0.97%	-0.23
9/11/2020	-1.05%	0.17%	-1.21%	-0.28
9/14/2020	1.46%	2.33%	-0.87%	-0.20
9/15/2020	-0.21%	1.24%	-1.45%	-0.34
9/16/2020	-1.68%	-0.36%	-1.32%	-0.31
9/17/2020	0.00%	-0.39%	0.39%	0.09
9/18/2020	2.71%	-0.79%	3.50%	0.81
9/21/2020	-2.08%	-0.07%	-2.01%	-0.47
9/22/2020	3.71%	1.76%	1.96%	0.45
9/23/2020	-2.87%	-2.47%	-0.41%	-0.09
9/24/2020	-1.05%	0.86%	-1.91%	-0.44
9/25/2020	0.42%	2.47%	-2.05%	-0.48
9/28/2020	-3.41%	2.32%	-5.73%	-1.33
9/29/2020	0.43%	0.09%	0.35%	0.08
9/30/2020	-0.87%	1.30%	-2.17%	-0.50
10/1/2020	-0.22%	1.40%	-1.61%	-0.38
10/2/2020	-3.10%	-1.08%	-2.03%	-0.47
10/5/2020	1.34%	2.60%	-1.25%	-0.29
10/6/2020	1.10%	-0.97%	2.08%	0.48
10/7/2020	0.44%	2.37%	-1.93%	-0.45
10/8/2020	0.65%	1.23%	-0.58%	-0.13
10/9/2020	2.79%	1.67%	1.12%	0.26
10/12/2020	0.42%	2.45%	-2.03%	-0.47

Exhibit-7b

BB Event Study Results

January 28, 2020 through January 27, 2021

Date	BB LN Return	BB Explained Return	BB Residual Return	*t*-statistic[1]	
10/13/2020	7.89%	-0.11%	8.00%	1.86	
10/14/2020	-1.17%	-0.15%	-1.02%	-0.24	
10/15/2020	1.56%	0.25%	1.31%	0.31	
10/16/2020	-3.55%	0.32%	-3.87%	-0.90	
10/19/2020	4.13%	-1.24%	5.37%	1.25	
10/20/2020	-2.14%	0.89%	-3.03%	-0.70	
10/21/2020	0.39%	0.19%	0.20%	0.05	
10/22/2020	0.59%	0.70%	-0.12%	-0.03	
10/23/2020	-0.20%	0.69%	-0.88%	-0.21	
10/26/2020	-4.80%	-1.63%	-3.17%	-0.74	
10/27/2020	-0.62%	0.48%	-1.10%	-0.25	
10/28/2020	-5.95%	-3.54%	-2.40%	-0.56	
10/29/2020	0.87%	1.93%	-1.06%	-0.25	
10/30/2020	-2.64%	-1.40%	-1.24%	-0.29	
11/2/2020	-0.22%	1.43%	-1.65%	-0.38	
11/3/2020	4.15%	2.45%	1.70%	0.40	
11/4/2020	0.21%	3.29%	-3.07%	-0.71	
11/5/2020	3.77%	3.12%	0.65%	0.15	
11/6/2020	-0.62%	0.61%	-1.23%	-0.29	
11/9/2020	2.05%	0.91%	1.14%	0.27	
11/10/2020	1.81%	-0.34%	2.15%	0.50	
11/11/2020	3.33%	1.97%	1.36%	0.32	
11/12/2020	-3.93%	-0.55%	-3.38%	-0.79	
11/13/2020	2.38%	1.71%	0.67%	0.15	
11/16/2020	1.55%	1.69%	-0.14%	-0.03	
11/17/2020	1.91%	0.15%	1.75%	0.41	
11/18/2020	2.80%	-0.56%	3.36%	0.78	
11/19/2020	-1.48%	1.20%	-2.69%	-0.62	
11/20/2020	7.20%	-0.23%	7.43%	1.73	
11/23/2020	-1.75%	1.00%	-2.75%	-0.64	
11/24/2020	0.70%	2.04%	-1.34%	-0.31	
11/25/2020	3.62%	0.58%	3.04%	0.71	
11/27/2020	3.98%	0.95%	3.03%	0.70	
11/30/2020	-4.66%	0.35%	-5.01%	-1.16	
12/1/2020	17.61%	1.68%	15.92%	3.70	*
12/2/2020	6.23%	0.48%	5.76%	1.34	

Exhibit-7b

BB Event Study Results

January 28, 2020 through January 27, 2021

Date	BB LN Return	BB Explained Return	BB Residual Return	*t*-statistic[1]	
12/3/2020	0.13%	0.59%	-0.46%	-0.11	
12/4/2020	13.29%	1.59%	11.70%	2.72	*
12/7/2020	-3.22%	0.57%	-3.79%	-0.88	
12/8/2020	3.22%	0.91%	2.31%	0.54	
12/9/2020	-2.50%	-0.93%	-1.57%	-0.36	
12/10/2020	0.72%	0.69%	0.03%	0.01	
12/11/2020	-2.54%	0.24%	-2.78%	-0.65	
12/14/2020	1.10%	0.42%	0.68%	0.16	
12/15/2020	0.60%	1.99%	-1.39%	-0.32	
12/16/2020	-0.73%	0.87%	-1.59%	-0.37	
12/17/2020	0.24%	1.31%	-1.07%	-0.25	
12/18/2020	-17.27%	0.20%	-17.47%	-4.06	*
12/21/2020	2.28%	0.31%	1.97%	0.46	
12/22/2020	1.12%	0.86%	0.26%	0.06	
12/23/2020	-1.40%	0.24%	-1.64%	-0.38	
12/24/2020	-0.42%	0.93%	-1.35%	-0.32	
12/28/2020	-2.58%	1.20%	-3.78%	-0.88	
12/29/2020	-1.61%	0.02%	-1.63%	-0.38	
12/30/2020	-1.49%	0.69%	-2.18%	-0.51	
12/31/2020	-0.60%	0.84%	-1.44%	-0.33	
1/4/2021	-0.76%	-1.13%	0.37%	0.09	
1/5/2021	2.85%	1.36%	1.48%	0.35	
1/6/2021	-0.89%	0.30%	-1.19%	-0.28	
1/7/2021	5.08%	2.61%	2.47%	0.58	
1/8/2021	6.84%	1.09%	5.75%	1.34	
1/11/2021	1.18%	-0.28%	1.47%	0.34	
1/12/2021	-0.26%	0.59%	-0.85%	-0.20	
1/13/2021	-2.52%	0.80%	-3.32%	-0.77	
1/14/2021	20.25%	0.10%	20.15%	4.69	*
1/15/2021	7.71%	-0.49%	8.20%	1.91	
1/19/2021	22.72%	1.57%	21.15%	4.92	*
1/20/2021	3.50%	2.08%	1.42%	0.33	
1/21/2021	0.47%	0.94%	-0.47%	-0.11	
1/22/2021	8.86%	0.25%	8.60%	2.00	*
1/25/2021	25.01%	0.99%	24.02%	5.59	*
1/26/2021	4.82%	0.28%	4.54%	1.05	

Exhibit-7b

BB Event Study Results

January 28, 2020 through January 27, 2021

Date	BB LN Return	BB Explained Return	BB Residual Return	*t*-statistic[1]	
1/27/2021	28.26%	-1.99%	30.26%	7.04	*

Note:
[1] *t*-statistics marked with a "*" are significant at the 95% confidence level.
[2] All returns are logarithmic returns.

Exhibit-7c

BBBY Event Study Results

January 28, 2020 through January 27, 2021

Date	BBBY LN Return	BBBY Explained Return	BBBY Residual Return	*t*-statistic[1]	
1/28/2020	1.25%	1.45%	-0.20%	-0.04	
1/29/2020	0.56%	0.06%	0.50%	0.09	
1/30/2020	-8.09%	-0.17%	-7.92%	-1.42	
1/31/2020	-4.80%	-2.63%	-2.16%	-0.39	
2/3/2020	4.36%	1.60%	2.76%	0.50	
2/4/2020	3.01%	2.14%	0.87%	0.16	
2/5/2020	2.64%	2.32%	0.32%	0.06	
2/6/2020	-0.83%	0.09%	-0.92%	-0.17	
2/7/2020	-2.00%	-0.61%	-1.39%	-0.25	
2/10/2020	-6.89%	1.24%	-8.13%	-1.46	
2/11/2020	3.84%	1.06%	2.78%	0.50	
2/12/2020	-23.07%	1.16%	-24.24%	-4.35	*
2/13/2020	0.17%	0.31%	-0.14%	-0.03	
2/14/2020	-5.48%	0.76%	-6.24%	-1.12	
2/18/2020	5.23%	-0.02%	5.25%	0.94	
2/19/2020	6.81%	0.53%	6.28%	1.13	
2/20/2020	0.47%	1.25%	-0.78%	-0.14	
2/21/2020	-1.75%	-0.90%	-0.85%	-0.15	
2/24/2020	-6.90%	-3.31%	-3.59%	-0.64	
2/25/2020	-5.57%	-3.25%	-2.33%	-0.42	
2/26/2020	-3.61%	-0.30%	-3.31%	-0.59	
2/27/2020	-3.07%	-5.69%	2.63%	0.47	
2/28/2020	5.03%	-1.92%	6.95%	1.25	
3/2/2020	-4.54%	5.78%	-10.33%	-1.85	
3/3/2020	-4.15%	-2.50%	-1.65%	-0.30	
3/4/2020	0.60%	5.83%	-5.23%	-0.94	
3/5/2020	-4.93%	-4.68%	-0.25%	-0.05	
3/6/2020	3.11%	-2.14%	5.25%	0.94	
3/9/2020	-8.30%	-9.69%	1.39%	0.25	
3/10/2020	-3.04%	7.68%	-10.73%	-1.92	
3/11/2020	-13.32%	-6.62%	-6.70%	-1.20	
3/12/2020	-16.91%	-14.36%	-2.54%	-0.46	
3/13/2020	14.75%	9.45%	5.31%	0.95	
3/16/2020	-17.99%	-25.46%	7.48%	1.34	
3/17/2020	-11.29%	5.78%	-17.07%	-3.06	*
3/18/2020	-16.34%	-11.94%	-4.39%	-0.79	

Exhibit-7c

BBBY Event Study Results

January 28, 2020 through January 27, 2021

Date	BBBY LN Return	BBBY Explained Return	BBBY Residual Return	*t*-statistic[1]	
3/19/2020	15.97%	4.61%	11.36%	2.04	*
3/20/2020	-8.07%	-7.34%	-0.73%	-0.13	
3/23/2020	-11.43%	1.53%	-12.96%	-2.32	*
3/24/2020	24.88%	15.51%	9.37%	1.68	
3/25/2020	-5.94%	3.87%	-9.81%	-1.76	
3/26/2020	-9.74%	8.35%	-18.08%	-3.24	*
3/27/2020	-5.03%	-3.62%	-1.41%	-0.25	
3/30/2020	-10.18%	3.35%	-13.53%	-2.43	*
3/31/2020	0.24%	-3.17%	3.41%	0.61	
4/1/2020	-10.51%	-6.81%	-3.70%	-0.66	
4/2/2020	-6.26%	1.97%	-8.23%	-1.48	
4/3/2020	10.14%	-2.61%	12.75%	2.29	*
4/6/2020	11.27%	11.48%	-0.21%	-0.04	
4/7/2020	6.58%	1.14%	5.44%	0.98	
4/8/2020	19.08%	4.39%	14.69%	2.63	*
4/9/2020	-2.13%	2.82%	-4.95%	-0.89	
4/13/2020	-5.72%	-1.06%	-4.66%	-0.84	
4/14/2020	1.88%	5.04%	-3.16%	-0.57	
4/15/2020	-19.02%	-4.50%	-14.52%	-2.60	*
4/16/2020	16.57%	0.38%	16.19%	2.90	*
4/17/2020	-8.98%	5.78%	-14.76%	-2.65	*
4/20/2020	-5.14%	-2.38%	-2.76%	-0.50	
4/21/2020	-0.44%	-3.58%	3.14%	0.56	
4/22/2020	1.53%	2.72%	-1.19%	-0.21	
4/23/2020	6.52%	-0.11%	6.63%	1.19	
4/24/2020	6.31%	4.24%	2.07%	0.37	
4/27/2020	20.34%	3.62%	16.72%	3.00	*
4/28/2020	3.68%	0.90%	2.77%	0.50	
4/29/2020	-0.91%	3.83%	-4.73%	-0.85	
4/30/2020	-6.26%	-2.41%	-3.85%	-0.69	
5/1/2020	-9.39%	-2.19%	-7.20%	-1.29	
5/4/2020	4.76%	1.67%	3.10%	0.56	
5/5/2020	-5.75%	1.99%	-7.74%	-1.39	
5/6/2020	1.07%	-0.42%	1.49%	0.27	
5/7/2020	2.45%	2.26%	0.19%	0.03	
5/8/2020	11.12%	3.15%	7.97%	1.43	

Exhibit-7c

BBBY Event Study Results

January 28, 2020 through January 27, 2021

Date	BBBY LN Return	BBBY Explained Return	BBBY Residual Return	*t*-statistic[1]	
5/11/2020	-4.11%	0.32%	-4.43%	-0.79	
5/12/2020	-5.64%	-2.72%	-2.92%	-0.52	
5/13/2020	-7.25%	-2.23%	-5.03%	-0.90	
5/14/2020	-1.85%	2.01%	-3.86%	-0.69	
5/15/2020	7.90%	2.70%	5.21%	0.93	
5/18/2020	8.12%	4.62%	3.50%	0.63	
5/19/2020	-5.40%	-1.44%	-3.96%	-0.71	
5/20/2020	0.00%	1.09%	-1.09%	-0.20	
5/21/2020	13.35%	1.89%	11.46%	2.06	*
5/22/2020	-1.48%	0.48%	-1.96%	-0.35	
5/26/2020	11.15%	1.89%	9.25%	1.66	
5/27/2020	2.64%	3.18%	-0.55%	-0.10	
5/28/2020	-2.90%	-0.76%	-2.15%	-0.38	
5/29/2020	-2.71%	1.08%	-3.79%	-0.68	
6/1/2020	3.11%	0.37%	2.74%	0.49	
6/2/2020	0.66%	2.08%	-1.41%	-0.25	
6/3/2020	6.78%	1.58%	5.20%	0.93	
6/4/2020	7.74%	-1.14%	8.87%	1.59	
6/5/2020	6.54%	3.73%	2.81%	0.50	
6/8/2020	5.63%	1.32%	4.31%	0.77	
6/9/2020	-8.13%	-0.85%	-7.28%	-1.31	
6/10/2020	-9.58%	-1.12%	-8.45%	-1.52	
6/11/2020	-10.19%	-7.17%	-3.02%	-0.54	
6/12/2020	8.23%	1.64%	6.60%	1.18	
6/15/2020	3.28%	1.06%	2.22%	0.40	
6/16/2020	14.13%	4.33%	9.80%	1.76	
6/17/2020	0.83%	0.47%	0.36%	0.06	
6/18/2020	3.83%	-0.59%	4.42%	0.79	
6/19/2020	-2.61%	-0.91%	-1.70%	-0.30	
6/22/2020	1.31%	1.35%	-0.04%	-0.01	
6/23/2020	2.67%	0.59%	2.08%	0.37	
6/24/2020	-9.09%	-3.02%	-6.07%	-1.09	
6/25/2020	1.33%	0.34%	0.99%	0.18	
6/26/2020	5.89%	-2.23%	8.12%	1.46	
6/29/2020	7.38%	3.01%	4.37%	0.78	
6/30/2020	-2.05%	1.87%	-3.92%	-0.70	

Exhibit-7c

BBBY Event Study Results

January 28, 2020 through January 27, 2021

Date	BBBY LN Return	BBBY Explained Return	BBBY Residual Return	*t*-statistic[1]	
7/1/2020	0.38%	0.38%	-0.00%	-0.00	
7/2/2020	1.59%	0.79%	0.79%	0.14	
7/6/2020	-0.46%	1.38%	-1.85%	-0.33	
7/7/2020	-4.95%	-1.51%	-3.44%	-0.62	
7/8/2020	1.65%	1.03%	0.61%	0.11	
7/9/2020	-28.10%	-0.76%	-27.34%	-4.90	*
7/10/2020	4.17%	1.73%	2.45%	0.44	
7/13/2020	-5.91%	-0.79%	-5.12%	-0.92	
7/14/2020	8.26%	2.66%	5.60%	1.01	
7/15/2020	5.68%	2.07%	3.60%	0.65	
7/16/2020	6.38%	0.54%	5.84%	1.05	
7/17/2020	-2.62%	0.87%	-3.50%	-0.63	
7/20/2020	-3.64%	0.36%	-4.01%	-0.72	
7/21/2020	5.90%	1.44%	4.46%	0.80	
7/22/2020	5.87%	1.92%	3.95%	0.71	
7/23/2020	1.64%	-0.83%	2.47%	0.44	
7/24/2020	-0.25%	-0.04%	-0.21%	-0.04	
7/27/2020	3.77%	1.10%	2.68%	0.48	
7/28/2020	-1.72%	-0.64%	-1.09%	-0.19	
7/29/2020	4.72%	1.66%	3.06%	0.55	
7/30/2020	1.01%	0.55%	0.46%	0.08	
7/31/2020	-1.29%	0.22%	-1.51%	-0.27	
8/3/2020	2.10%	0.87%	1.24%	0.22	
8/4/2020	3.38%	1.02%	2.36%	0.42	
8/5/2020	2.93%	0.65%	2.28%	0.41	
8/6/2020	1.94%	0.70%	1.23%	0.22	
8/7/2020	0.91%	1.25%	-0.33%	-0.06	
8/10/2020	4.44%	1.44%	3.00%	0.54	
8/11/2020	-5.94%	0.01%	-5.95%	-1.07	
8/12/2020	1.58%	2.46%	-0.88%	-0.16	
8/13/2020	1.80%	0.02%	1.78%	0.32	
8/14/2020	0.08%	0.23%	-0.15%	-0.03	
8/17/2020	4.12%	2.68%	1.44%	0.26	
8/18/2020	-5.35%	-0.68%	-4.67%	-0.84	
8/19/2020	0.00%	-0.91%	0.91%	0.16	
8/20/2020	-6.17%	-0.66%	-5.51%	-0.99	

Exhibit-7c

BBBY Event Study Results

January 28, 2020 through January 27, 2021

Date	BBBY LN Return	BBBY Explained Return	BBBY Residual Return	*t*-statistic[1]	
8/21/2020	1.73%	1.15%	0.58%	0.10	
8/24/2020	4.97%	2.20%	2.77%	0.50	
8/25/2020	0.45%	0.17%	0.28%	0.05	
8/26/2020	-1.14%	1.82%	-2.97%	-0.53	
8/27/2020	-2.24%	-0.53%	-1.71%	-0.31	
8/28/2020	1.46%	0.55%	0.91%	0.16	
8/31/2020	0.78%	-0.26%	1.04%	0.19	
9/1/2020	6.82%	1.49%	5.33%	0.96	
9/2/2020	-4.75%	2.08%	-6.83%	-1.23	
9/3/2020	-4.99%	-4.81%	-0.18%	-0.03	
9/4/2020	-0.68%	-1.62%	0.94%	0.17	
9/8/2020	-3.73%	-1.55%	-2.18%	-0.39	
9/9/2020	0.88%	3.01%	-2.13%	-0.38	
9/10/2020	4.79%	-1.81%	6.60%	1.18	
9/11/2020	0.46%	1.16%	-0.70%	-0.13	
9/14/2020	5.30%	2.55%	2.75%	0.49	
9/15/2020	-1.11%	1.86%	-2.97%	-0.53	
9/16/2020	2.21%	-0.65%	2.86%	0.51	
9/17/2020	-0.78%	-1.13%	0.35%	0.06	
9/18/2020	-1.34%	-1.40%	0.05%	0.01	
9/21/2020	-1.48%	-1.54%	0.05%	0.01	
9/22/2020	11.66%	1.17%	10.49%	1.88	
9/23/2020	-4.04%	-2.80%	-1.23%	-0.22	
9/24/2020	4.22%	-0.29%	4.51%	0.81	
9/25/2020	4.22%	1.73%	2.49%	0.45	
9/28/2020	2.38%	2.99%	-0.61%	-0.11	
9/29/2020	-2.52%	-0.45%	-2.07%	-0.37	
9/30/2020	3.19%	2.35%	0.84%	0.15	
10/1/2020	22.42%	1.27%	21.15%	3.79	*
10/2/2020	9.44%	0.13%	9.31%	1.67	
10/5/2020	-0.54%	2.00%	-2.54%	-0.46	
10/6/2020	-2.57%	-2.36%	-0.21%	-0.04	
10/7/2020	4.31%	2.91%	1.40%	0.25	
10/8/2020	4.27%	1.40%	2.87%	0.51	
10/9/2020	-1.39%	0.97%	-2.36%	-0.42	
10/12/2020	0.42%	1.06%	-0.64%	-0.12	

Exhibit-7c

BBBY Event Study Results

January 28, 2020 through January 27, 2021

Date	BBBY LN Return	BBBY Explained Return	BBBY Residual Return	*t*-statistic[1]	
10/13/2020	2.72%	0.83%	1.90%	0.34	
10/14/2020	7.81%	-0.78%	8.59%	1.54	
10/15/2020	4.15%	0.82%	3.33%	0.60	
10/16/2020	-0.50%	0.17%	-0.67%	-0.12	
10/19/2020	0.22%	-1.83%	2.05%	0.37	
10/20/2020	0.40%	1.01%	-0.61%	-0.11	
10/21/2020	-2.23%	-0.53%	-1.69%	-0.30	
10/22/2020	2.94%	-0.22%	3.16%	0.57	
10/23/2020	0.75%	1.25%	-0.49%	-0.09	
10/26/2020	-2.52%	-3.09%	0.58%	0.10	
10/27/2020	-2.95%	-0.43%	-2.52%	-0.45	
10/28/2020	-12.92%	-3.84%	-9.08%	-1.63	
10/29/2020	-2.74%	0.84%	-3.58%	-0.64	
10/30/2020	-3.62%	-1.40%	-2.22%	-0.40	
11/2/2020	2.00%	2.36%	-0.36%	-0.07	
11/3/2020	2.30%	3.53%	-1.23%	-0.22	
11/4/2020	1.68%	2.11%	-0.44%	-0.08	
11/5/2020	2.26%	2.25%	0.00%	0.00	
11/6/2020	-0.28%	-0.24%	-0.04%	-0.01	
11/9/2020	-13.99%	-1.20%	-12.80%	-2.30	*
11/10/2020	1.65%	1.81%	-0.16%	-0.03	
11/11/2020	4.39%	0.68%	3.71%	0.67	
11/12/2020	-0.35%	-0.86%	0.50%	0.09	
11/13/2020	2.50%	1.58%	0.92%	0.17	
11/16/2020	1.52%	2.05%	-0.53%	-0.09	
11/17/2020	-2.07%	-1.26%	-0.81%	-0.14	
11/18/2020	-1.28%	-1.83%	0.55%	0.10	
11/19/2020	2.80%	1.07%	1.74%	0.31	
11/20/2020	-0.93%	-0.41%	-0.52%	-0.09	
11/23/2020	2.68%	1.62%	1.06%	0.19	
11/24/2020	5.52%	1.91%	3.61%	0.65	
11/25/2020	-1.14%	-0.31%	-0.84%	-0.15	
11/27/2020	0.37%	0.72%	-0.35%	-0.06	
11/30/2020	-3.93%	0.08%	-4.00%	-0.72	
12/1/2020	-2.81%	1.05%	-3.86%	-0.69	
12/2/2020	-0.29%	-0.68%	0.39%	0.07	

Exhibit-7c

BBBY Event Study Results

January 28, 2020 through January 27, 2021

Date	BBBY LN Return	BBBY Explained Return	BBBY Residual Return	*t*-statistic[1]	
12/3/2020	-3.76%	0.20%	-3.96%	-0.71	
12/4/2020	0.66%	0.12%	0.54%	0.10	
12/7/2020	-2.73%	-0.03%	-2.70%	-0.48	
12/8/2020	-3.07%	-0.16%	-2.91%	-0.52	
12/9/2020	-0.43%	1.79%	-2.22%	-0.40	
12/10/2020	2.40%	0.12%	2.28%	0.41	
12/11/2020	1.10%	-0.33%	1.43%	0.26	
12/14/2020	-1.58%	0.21%	-1.78%	-0.32	
12/15/2020	3.44%	2.16%	1.28%	0.23	
12/16/2020	1.42%	0.73%	0.69%	0.12	
12/17/2020	-0.05%	1.52%	-1.57%	-0.28	
12/18/2020	-5.61%	-0.40%	-5.21%	-0.93	
12/21/2020	2.84%	0.34%	2.50%	0.45	
12/22/2020	-1.41%	-0.08%	-1.33%	-0.24	
12/23/2020	-0.58%	0.24%	-0.82%	-0.15	
12/24/2020	-1.49%	0.50%	-1.99%	-0.36	
12/28/2020	0.91%	0.46%	0.45%	0.08	
12/29/2020	0.32%	-0.82%	1.13%	0.20	
12/30/2020	-0.96%	0.49%	-1.45%	-0.26	
12/31/2020	-4.89%	0.41%	-5.30%	-0.95	
1/4/2021	1.51%	-1.13%	2.64%	0.47	
1/5/2021	9.16%	1.04%	8.12%	1.46	
1/6/2021	6.23%	2.61%	3.61%	0.65	
1/7/2021	-11.58%	1.20%	-12.79%	-2.29	*
1/8/2021	1.11%	1.27%	-0.15%	-0.03	
1/11/2021	7.87%	0.30%	7.57%	1.36	
1/12/2021	4.93%	1.87%	3.05%	0.55	
1/13/2021	6.71%	-0.43%	7.14%	1.28	
1/14/2021	17.20%	-0.67%	17.87%	3.21	*
1/15/2021	-6.60%	0.95%	-7.55%	-1.35	
1/19/2021	-2.23%	-0.00%	-2.23%	-0.40	
1/20/2021	-0.24%	1.48%	-1.72%	-0.31	
1/21/2021	7.33%	0.97%	6.36%	1.14	
1/22/2021	11.72%	0.34%	11.37%	2.04	*
1/25/2021	1.54%	0.22%	1.32%	0.24	
1/26/2021	18.38%	-0.46%	18.84%	3.38	*

Exhibit-7c

BBBY Event Study Results

January 28, 2020 through January 27, 2021

Date	BBBY LN Return	BBBY Explained Return	BBBY Residual Return	*t*-statistic[1]	
1/27/2021	36.08%	-3.88%	39.96%	7.17	*

Note:
[1] *t*-statistics marked with a "*" are significant at the 95% confidence level.
[2] All returns are logarithmic returns.

Exhibit-7d

EXPR Event Study Results

January 28, 2020 through January 27, 2021

Date	EXPR LN Return	EXPR Explained Return	EXPR Residual Return	*t*-statistic[1]
1/28/2020	-4.27%	0.53%	-4.80%	-0.54
1/29/2020	-5.84%	0.30%	-6.14%	-0.69
1/30/2020	-3.29%	-0.88%	-2.41%	-0.27
1/31/2020	-4.15%	-2.76%	-1.39%	-0.16
2/3/2020	3.43%	1.99%	1.44%	0.16
2/4/2020	5.62%	2.38%	3.25%	0.36
2/5/2020	2.92%	2.72%	0.20%	0.02
2/6/2020	0.44%	-0.91%	1.36%	0.15
2/7/2020	-7.07%	-1.33%	-5.74%	-0.64
2/10/2020	0.24%	0.40%	-0.16%	-0.02
2/11/2020	2.10%	2.14%	-0.04%	-0.00
2/12/2020	3.18%	1.56%	1.62%	0.18
2/13/2020	-3.18%	0.06%	-3.25%	-0.36
2/14/2020	0.92%	0.38%	0.54%	0.06
2/18/2020	-1.15%	-0.07%	-1.08%	-0.12
2/19/2020	0.92%	0.51%	0.41%	0.05
2/20/2020	4.92%	0.37%	4.55%	0.51
2/21/2020	-2.66%	-1.02%	-1.63%	-0.18
2/24/2020	-8.66%	-2.83%	-5.83%	-0.65
2/25/2020	-4.76%	-4.36%	-0.40%	-0.04
2/26/2020	-3.13%	3.98%	-7.11%	-0.80
2/27/2020	0.53%	-6.82%	7.35%	0.82
2/28/2020	-2.67%	-1.50%	-1.16%	-0.13
3/2/2020	-5.84%	3.07%	-8.91%	-1.00
3/3/2020	-11.21%	-3.03%	-8.18%	-0.91
3/4/2020	1.27%	2.37%	-1.10%	-0.12
3/5/2020	-6.20%	-6.54%	0.34%	0.04
3/6/2020	1.01%	-1.33%	2.34%	0.26
3/9/2020	-13.93%	-6.26%	-7.66%	-0.86
3/10/2020	-5.11%	3.54%	-8.65%	-0.97
3/11/2020	-7.53%	-6.21%	-1.32%	-0.15
3/12/2020	-4.90%	-13.56%	8.66%	0.97
3/13/2020	-1.38%	4.62%	-6.00%	-0.67
3/16/2020	-30.01%	-29.70%	-0.31%	-0.04
3/17/2020	4.88%	0.47%	4.41%	0.49
3/18/2020	-6.77%	-9.81%	3.03%	0.34

Exhibit-7d

EXPR Event Study Results

January 28, 2020 through January 27, 2021

Date	EXPR LN Return	EXPR Explained Return	EXPR Residual Return	*t*-statistic[1]	
3/19/2020	15.32%	7.57%	7.76%	0.87	
3/20/2020	-6.20%	-8.08%	1.88%	0.21	
3/23/2020	-1.76%	-4.25%	2.49%	0.28	
3/24/2020	-1.19%	15.92%	-17.11%	-1.92	
3/25/2020	5.82%	9.71%	-3.89%	-0.44	
3/26/2020	12.72%	7.42%	5.30%	0.59	
3/27/2020	-4.58%	-4.72%	0.14%	0.02	
3/30/2020	-15.76%	1.91%	-17.67%	-1.98	*
3/31/2020	-9.59%	0.42%	-10.01%	-1.12	
4/1/2020	-9.13%	-9.12%	-0.01%	-0.00	
4/2/2020	2.18%	-2.28%	4.46%	0.50	
4/3/2020	-5.17%	-6.57%	1.40%	0.16	
4/6/2020	10.08%	15.97%	-5.89%	-0.66	
4/7/2020	12.84%	1.60%	11.24%	1.26	
4/8/2020	24.46%	6.25%	18.21%	2.04	*
4/9/2020	19.64%	0.73%	18.90%	2.12	*
4/13/2020	-23.48%	-3.68%	-19.81%	-2.22	*
4/14/2020	16.25%	5.49%	10.76%	1.20	
4/15/2020	-18.23%	-4.84%	-13.39%	-1.50	
4/16/2020	-1.01%	-3.05%	2.05%	0.23	
4/17/2020	1.50%	7.53%	-6.03%	-0.67	
4/20/2020	-4.58%	-5.77%	1.19%	0.13	
4/21/2020	-4.80%	-4.37%	-0.43%	-0.05	
4/22/2020	-7.96%	-0.44%	-7.52%	-0.84	
4/23/2020	-3.61%	-1.26%	-2.35%	-0.26	
4/24/2020	1.22%	1.64%	-0.42%	-0.05	
4/27/2020	7.58%	6.34%	1.25%	0.14	
4/28/2020	15.09%	3.46%	11.63%	1.30	
4/29/2020	-1.46%	5.56%	-7.02%	-0.79	
4/30/2020	1.46%	-7.07%	8.53%	0.95	
5/1/2020	-7.52%	-2.61%	-4.91%	-0.55	
5/4/2020	-5.90%	-1.05%	-4.85%	-0.54	
5/5/2020	-5.10%	0.30%	-5.40%	-0.60	
5/6/2020	-7.23%	-1.03%	-6.20%	-0.69	
5/7/2020	6.06%	2.01%	4.05%	0.45	
5/8/2020	5.72%	1.63%	4.08%	0.46	

Exhibit-7d

EXPR Event Study Results

January 28, 2020 through January 27, 2021

Date	EXPR LN Return	EXPR Explained Return	EXPR Residual Return	*t*-statistic[1]	
5/11/2020	-2.82%	-1.24%	-1.58%	-0.18	
5/12/2020	-6.49%	-5.87%	-0.62%	-0.07	
5/13/2020	-3.10%	-4.69%	1.59%	0.18	
5/14/2020	0.63%	1.69%	-1.06%	-0.12	
5/15/2020	4.28%	4.22%	0.06%	0.01	
5/18/2020	8.05%	7.21%	0.84%	0.09	
5/19/2020	-3.37%	-0.12%	-3.25%	-0.36	
5/20/2020	1.14%	0.85%	0.28%	0.03	
5/21/2020	7.61%	8.60%	-0.98%	-0.11	
5/22/2020	-2.12%	-2.45%	0.33%	0.04	
5/26/2020	4.19%	3.99%	0.20%	0.02	
5/27/2020	6.45%	2.32%	4.13%	0.46	
5/28/2020	-2.93%	-1.68%	-1.25%	-0.14	
5/29/2020	-3.02%	-2.83%	-0.18%	-0.02	
6/1/2020	-5.24%	1.39%	-6.62%	-0.74	
6/2/2020	8.75%	1.30%	7.45%	0.83	
6/3/2020	-8.21%	2.96%	-11.17%	-1.25	
6/4/2020	1.06%	-0.72%	1.78%	0.20	
6/5/2020	8.13%	5.71%	2.42%	0.27	
6/8/2020	21.83%	1.10%	20.72%	2.32	*
6/9/2020	-2.38%	-2.71%	0.33%	0.04	
6/10/2020	-12.38%	-3.70%	-8.68%	-0.97	
6/11/2020	-15.72%	-6.73%	-8.99%	-1.01	
6/12/2020	3.66%	-0.36%	4.02%	0.45	
6/15/2020	-4.73%	-0.18%	-4.55%	-0.51	
6/16/2020	3.17%	7.00%	-3.82%	-0.43	
6/17/2020	-2.11%	-2.22%	0.11%	0.01	
6/18/2020	-1.61%	-2.84%	1.24%	0.14	
6/19/2020	1.08%	-1.61%	2.68%	0.30	
6/22/2020	-2.71%	-0.31%	-2.40%	-0.27	
6/23/2020	-5.65%	1.12%	-6.77%	-0.76	
6/24/2020	-9.76%	-5.04%	-4.72%	-0.53	
6/25/2020	-1.94%	-2.03%	0.08%	0.01	
6/26/2020	-7.46%	-2.90%	-4.56%	-0.51	
6/29/2020	6.15%	3.50%	2.64%	0.30	
6/30/2020	1.97%	-0.23%	2.20%	0.25	

Exhibit-7d

EXPR Event Study Results

January 28, 2020 through January 27, 2021

Date	EXPR LN Return	EXPR Explained Return	EXPR Residual Return	*t*-statistic[1]
7/1/2020	-6.71%	1.17%	-7.88%	-0.88
7/2/2020	-1.40%	1.10%	-2.50%	-0.28
7/6/2020	-2.86%	2.10%	-4.95%	-0.55
7/7/2020	-5.97%	-4.86%	-1.12%	-0.12
7/8/2020	7.41%	0.64%	6.77%	0.76
7/9/2020	6.90%	-2.65%	9.55%	1.07
7/10/2020	1.98%	2.37%	-0.39%	-0.04
7/13/2020	-9.60%	-2.11%	-7.49%	-0.84
7/14/2020	-0.72%	-2.58%	1.86%	0.21
7/15/2020	2.86%	6.78%	-3.92%	-0.44
7/16/2020	0.00%	2.08%	-2.08%	-0.23
7/17/2020	-2.14%	-0.63%	-1.50%	-0.17
7/20/2020	-4.41%	-2.65%	-1.76%	-0.20
7/21/2020	-1.52%	3.23%	-4.74%	-0.53
7/22/2020	-3.10%	0.91%	-4.01%	-0.45
7/23/2020	-2.39%	-0.21%	-2.18%	-0.24
7/24/2020	-2.45%	-1.78%	-0.67%	-0.07
7/27/2020	-5.09%	-1.39%	-3.70%	-0.41
7/28/2020	-0.87%	-0.01%	-0.87%	-0.10
7/29/2020	-4.49%	4.17%	-8.65%	-0.97
7/30/2020	1.82%	-1.71%	3.52%	0.39
7/31/2020	-9.44%	0.49%	-9.93%	-1.11
8/3/2020	0.99%	-0.85%	1.83%	0.20
8/4/2020	12.86%	1.99%	10.87%	1.22
8/5/2020	-1.74%	0.91%	-2.65%	-0.30
8/6/2020	-2.67%	-1.35%	-1.32%	-0.15
8/7/2020	2.67%	3.83%	-1.17%	-0.13
8/10/2020	7.60%	3.22%	4.38%	0.49
8/11/2020	0.81%	1.92%	-1.11%	-0.12
8/12/2020	-4.12%	0.70%	-4.82%	-0.54
8/13/2020	4.12%	-1.44%	5.55%	0.62
8/14/2020	0.00%	1.37%	-1.37%	-0.15
8/17/2020	2.39%	3.68%	-1.29%	-0.14
8/18/2020	-4.84%	-4.17%	-0.67%	-0.08
8/19/2020	-5.96%	-4.82%	-1.14%	-0.13
8/20/2020	-3.57%	-4.43%	0.86%	0.10

Exhibit-7d

EXPR Event Study Results

January 28, 2020 through January 27, 2021

Date	EXPR LN Return	EXPR Explained Return	EXPR Residual Return	*t*-statistic[1]	
8/21/2020	-4.65%	-0.07%	-4.58%	-0.51	
8/24/2020	0.00%	3.64%	-3.64%	-0.41	
8/25/2020	7.34%	0.48%	6.86%	0.77	
8/26/2020	-4.53%	-0.07%	-4.46%	-0.50	
8/27/2020	-2.82%	1.30%	-4.12%	-0.46	
8/28/2020	3.74%	2.83%	0.91%	0.10	
8/31/2020	1.82%	-1.78%	3.60%	0.40	
9/1/2020	-5.56%	1.39%	-6.95%	-0.78	
9/2/2020	-0.96%	3.37%	-4.32%	-0.48	
9/3/2020	-1.94%	-2.13%	0.19%	0.02	
9/4/2020	-4.46%	-0.13%	-4.33%	-0.48	
9/8/2020	-6.04%	0.21%	-6.25%	-0.70	
9/9/2020	0.03%	-1.62%	1.66%	0.19	
9/10/2020	-2.07%	-2.47%	0.41%	0.05	
9/11/2020	-1.67%	-0.35%	-1.32%	-0.15	
9/14/2020	8.94%	3.78%	5.17%	0.58	
9/15/2020	-1.46%	1.69%	-3.15%	-0.35	
9/16/2020	-0.69%	2.15%	-2.84%	-0.32	
9/17/2020	2.52%	-2.63%	5.16%	0.58	
9/18/2020	-7.78%	-0.68%	-7.09%	-0.79	
9/21/2020	-11.00%	-3.66%	-7.34%	-0.82	
9/22/2020	-4.45%	-0.04%	-4.41%	-0.49	
9/23/2020	-9.35%	-3.11%	-6.24%	-0.70	
9/24/2020	1.84%	-0.88%	2.72%	0.30	
9/25/2020	-5.14%	1.21%	-6.35%	-0.71	
9/28/2020	-1.87%	5.23%	-7.11%	-0.80	
9/29/2020	-8.70%	-2.78%	-5.93%	-0.66	
9/30/2020	-0.07%	2.96%	-3.03%	-0.34	
10/1/2020	26.73%	2.94%	23.78%	2.66	*
10/2/2020	2.26%	1.83%	0.43%	0.05	
10/5/2020	-7.00%	0.66%	-7.66%	-0.86	
10/6/2020	-14.32%	-2.67%	-11.65%	-1.30	
10/7/2020	6.64%	3.82%	2.82%	0.32	
10/8/2020	3.66%	0.31%	3.34%	0.37	
10/9/2020	3.00%	-0.04%	3.03%	0.34	
10/12/2020	1.36%	-0.52%	1.88%	0.21	

Exhibit-7d

EXPR Event Study Results

January 28, 2020 through January 27, 2021

Date	EXPR LN Return	EXPR Explained Return	EXPR Residual Return	*t*-statistic[1]	
10/13/2020	-5.47%	-1.25%	-4.23%	-0.47	
10/14/2020	2.29%	-0.45%	2.74%	0.31	
10/15/2020	1.68%	0.83%	0.85%	0.09	
10/16/2020	0.27%	-1.54%	1.81%	0.20	
10/19/2020	-0.33%	-3.77%	3.44%	0.38	
10/20/2020	-3.59%	0.22%	-3.82%	-0.43	
10/21/2020	-1.17%	-0.25%	-0.92%	-0.10	
10/22/2020	4.04%	2.75%	1.29%	0.14	
10/23/2020	3.16%	2.77%	0.39%	0.04	
10/26/2020	-2.58%	-4.60%	2.02%	0.23	
10/27/2020	-5.70%	-0.69%	-5.01%	-0.56	
10/28/2020	-7.32%	-6.35%	-0.97%	-0.11	
10/29/2020	-5.00%	1.54%	-6.54%	-0.73	
10/30/2020	-2.41%	-2.23%	-0.18%	-0.02	
11/2/2020	-4.97%	2.65%	-7.62%	-0.85	
11/3/2020	3.76%	4.38%	-0.62%	-0.07	
11/4/2020	-1.49%	-0.95%	-0.53%	-0.06	
11/5/2020	4.50%	3.18%	1.32%	0.15	
11/6/2020	-0.19%	-1.78%	1.59%	0.18	
11/9/2020	38.80%	14.87%	23.93%	2.68	*
11/10/2020	1.83%	1.97%	-0.14%	-0.02	
11/11/2020	-8.96%	-4.93%	-4.03%	-0.45	
11/12/2020	-8.88%	-1.19%	-7.69%	-0.86	
11/13/2020	-1.60%	2.06%	-3.66%	-0.41	
11/16/2020	9.12%	3.46%	5.66%	0.63	
11/17/2020	6.35%	0.21%	6.13%	0.69	
11/18/2020	12.96%	1.28%	11.68%	1.31	
11/19/2020	1.94%	0.32%	1.62%	0.18	
11/20/2020	9.18%	-1.47%	10.65%	1.19	
11/23/2020	19.83%	1.24%	18.59%	2.08	*
11/24/2020	10.25%	4.14%	6.11%	0.68	
11/25/2020	3.82%	-3.44%	7.27%	0.81	
11/27/2020	-0.63%	-0.03%	-0.60%	-0.07	
11/30/2020	-4.50%	-0.82%	-3.69%	-0.41	
12/1/2020	10.01%	3.35%	6.65%	0.74	
12/2/2020	-6.14%	0.53%	-6.66%	-0.75	

Exhibit-7d

EXPR Event Study Results

January 28, 2020 through January 27, 2021

Date	EXPR LN Return	EXPR Explained Return	EXPR Residual Return	*t*-statistic[1]	
12/3/2020	-30.04%	1.52%	-31.57%	-3.53	*
12/4/2020	2.53%	1.70%	0.83%	0.09	
12/7/2020	-8.70%	-0.97%	-7.73%	-0.87	
12/8/2020	2.69%	-0.08%	2.77%	0.31	
12/9/2020	2.62%	1.61%	1.01%	0.11	
12/10/2020	-3.51%	-0.78%	-2.73%	-0.31	
12/11/2020	-4.57%	-1.31%	-3.25%	-0.36	
12/14/2020	-2.84%	-1.86%	-0.98%	-0.11	
12/15/2020	0.96%	2.90%	-1.95%	-0.22	
12/16/2020	-0.96%	-0.40%	-0.56%	-0.06	
12/17/2020	1.90%	2.41%	-0.50%	-0.06	
12/18/2020	9.02%	-0.10%	9.12%	1.02	
12/21/2020	-6.22%	-0.69%	-5.54%	-0.62	
12/22/2020	-0.92%	-0.27%	-0.65%	-0.07	
12/23/2020	-2.82%	1.47%	-4.28%	-0.48	
12/24/2020	-0.96%	-0.71%	-0.25%	-0.03	
12/28/2020	-3.92%	3.20%	-7.12%	-0.80	
12/29/2020	-9.37%	-0.93%	-8.43%	-0.94	
12/30/2020	3.79%	0.91%	2.89%	0.32	
12/31/2020	-3.86%	-0.14%	-3.72%	-0.42	
1/4/2021	2.67%	-3.36%	6.03%	0.67	
1/5/2021	2.98%	0.28%	2.70%	0.30	
1/6/2021	3.78%	5.93%	-2.15%	-0.24	
1/7/2021	1.98%	0.56%	1.42%	0.16	
1/8/2021	1.94%	0.53%	1.41%	0.16	
1/11/2021	-4.20%	-1.76%	-2.44%	-0.27	
1/12/2021	5.16%	0.67%	4.49%	0.50	
1/13/2021	-1.92%	-1.57%	-0.35%	-0.04	
1/14/2021	21.73%	-1.01%	22.74%	2.55	*
1/15/2021	-1.57%	0.20%	-1.78%	-0.20	
1/19/2021	-4.05%	-2.22%	-1.83%	-0.20	
1/20/2021	-4.22%	1.56%	-5.78%	-0.65	
1/21/2021	0.86%	0.15%	0.71%	0.08	
1/22/2021	42.52%	-1.92%	44.44%	4.97	*
1/25/2021	84.09%	-1.53%	85.62%	9.58	*
1/26/2021	-31.13%	-2.14%	-28.99%	-3.24	*

Exhibit-7d

EXPR Event Study Results

January 28, 2020 through January 27, 2021

Date	EXPR LN Return	EXPR Explained Return	EXPR Residual Return	*t*-statistic[1]	
1/27/2021	114.47%	-3.96%	118.43%	13.25	*

Note:
[1] *t*-statistics marked with a "*" are significant at the 95% confidence level.
[2] All returns are logarithmic returns.

Exhibit-7e

GME Event Study Results

January 28, 2020 through January 27, 2021

Date	GME LN Return	GME Explained Return	GME Residual Return	*t*-statistic[1]
1/28/2020	-1.65%	2.53%	-4.18%	-0.47
1/29/2020	-1.92%	1.31%	-3.23%	-0.37
1/30/2020	-4.96%	1.77%	-6.74%	-0.76
1/31/2020	-2.32%	-0.42%	-1.90%	-0.21
2/3/2020	2.82%	2.33%	0.50%	0.06
2/4/2020	2.99%	3.11%	-0.12%	-0.01
2/5/2020	2.67%	2.51%	0.16%	0.02
2/6/2020	-0.96%	1.73%	-2.69%	-0.30
2/7/2020	-8.31%	0.84%	-9.15%	-1.03
2/10/2020	3.36%	2.21%	1.14%	0.13
2/11/2020	2.01%	1.85%	0.16%	0.02
2/12/2020	4.14%	2.19%	1.95%	0.22
2/13/2020	-1.93%	1.38%	-3.31%	-0.37
2/14/2020	-2.21%	1.63%	-3.85%	-0.44
2/18/2020	0.99%	1.29%	-0.30%	-0.03
2/19/2020	2.19%	2.03%	0.16%	0.02
2/20/2020	-0.24%	1.19%	-1.43%	-0.16
2/21/2020	-2.45%	0.36%	-2.81%	-0.32
2/24/2020	-8.79%	-2.13%	-6.66%	-0.75
2/25/2020	-3.86%	-1.87%	-1.98%	-0.22
2/26/2020	-4.89%	0.91%	-5.80%	-0.66
2/27/2020	2.33%	-3.18%	5.51%	0.62
2/28/2020	3.68%	0.49%	3.19%	0.36
3/2/2020	6.19%	5.85%	0.34%	0.04
3/3/2020	-5.36%	-1.33%	-4.03%	-0.46
3/4/2020	3.78%	5.57%	-1.79%	-0.20
3/5/2020	4.92%	-2.12%	7.03%	0.80
3/6/2020	-1.02%	-0.51%	-0.50%	-0.06
3/9/2020	-5.78%	-7.68%	1.90%	0.22
3/10/2020	13.39%	6.32%	7.07%	0.80
3/11/2020	-2.15%	-4.26%	2.11%	0.24
3/12/2020	-3.94%	-9.96%	6.02%	0.68
3/13/2020	14.26%	10.57%	3.69%	0.42
3/16/2020	-4.91%	-12.61%	7.70%	0.87
3/17/2020	-3.26%	7.27%	-10.53%	-1.19
3/18/2020	-11.51%	-5.41%	-6.10%	-0.69

Exhibit-7e

GME Event Study Results

January 28, 2020 through January 27, 2021

Date	GME LN Return	GME Explained Return	GME Residual Return	*t*-statistic[1]	
3/19/2020	10.56%	3.10%	7.47%	0.84	
3/20/2020	-10.83%	-2.73%	-8.10%	-0.92	
3/23/2020	1.32%	-1.43%	2.75%	0.31	
3/24/2020	8.79%	11.15%	-2.36%	-0.27	
3/25/2020	0.24%	3.24%	-3.00%	-0.34	
3/26/2020	5.60%	7.68%	-2.09%	-0.24	
3/27/2020	-4.40%	-2.26%	-2.14%	-0.24	
3/30/2020	-14.51%	4.65%	-19.16%	-2.17	*
3/31/2020	-4.20%	0.10%	-4.29%	-0.49	
4/1/2020	-7.41%	-3.66%	-3.75%	-0.42	
4/2/2020	-13.13%	3.61%	-16.74%	-1.89	
4/3/2020	-1.77%	-0.31%	-1.46%	-0.16	
4/6/2020	9.86%	8.83%	1.02%	0.12	
4/7/2020	5.66%	1.51%	4.15%	0.47	
4/8/2020	4.19%	5.14%	-0.95%	-0.11	
4/9/2020	13.17%	3.46%	9.71%	1.10	
4/13/2020	19.76%	0.42%	19.34%	2.19	*
4/14/2020	22.74%	4.59%	18.15%	2.05	*
4/15/2020	-12.14%	-1.10%	-11.04%	-1.25	
4/16/2020	-4.66%	1.98%	-6.64%	-0.75	
4/17/2020	-3.03%	4.45%	-7.48%	-0.85	
4/20/2020	13.94%	-0.23%	14.17%	1.60	
4/21/2020	-16.01%	-1.81%	-14.20%	-1.61	
4/22/2020	2.28%	3.82%	-1.54%	-0.17	
4/23/2020	-3.96%	1.62%	-5.58%	-0.63	
4/24/2020	1.48%	2.91%	-1.44%	-0.16	
4/27/2020	19.90%	3.39%	16.51%	1.87	
4/28/2020	-3.14%	1.17%	-4.31%	-0.49	
4/29/2020	6.85%	4.62%	2.24%	0.25	
4/30/2020	-5.27%	0.01%	-5.28%	-0.60	
5/1/2020	5.43%	-1.70%	7.13%	0.81	
5/4/2020	-9.90%	2.04%	-11.94%	-1.35	
5/5/2020	-1.66%	2.43%	-4.08%	-0.46	
5/6/2020	-8.92%	0.85%	-9.77%	-1.10	
5/7/2020	-1.22%	2.92%	-4.14%	-0.47	
5/8/2020	2.23%	3.52%	-1.29%	-0.15	

Exhibit-7e

GME Event Study Results

January 28, 2020 through January 27, 2021

Date	GME LN Return	GME Explained Return	GME Residual Return	*t*-statistic[1]
5/11/2020	-4.52%	1.43%	-5.95%	-0.67
5/12/2020	-4.73%	-0.84%	-3.89%	-0.44
5/13/2020	-7.55%	-0.65%	-6.90%	-0.78
5/14/2020	-1.92%	2.60%	-4.52%	-0.51
5/15/2020	2.16%	2.08%	0.08%	0.01
5/18/2020	8.19%	5.08%	3.10%	0.35
5/19/2020	-3.10%	0.39%	-3.49%	-0.39
5/20/2020	-0.23%	3.34%	-3.56%	-0.40
5/21/2020	0.23%	0.71%	-0.49%	-0.05
5/22/2020	-6.03%	1.74%	-7.78%	-0.88
5/26/2020	5.58%	2.99%	2.59%	0.29
5/27/2020	5.93%	3.14%	2.79%	0.32
5/28/2020	-7.99%	1.06%	-9.04%	-1.02
5/29/2020	-6.44%	2.01%	-8.45%	-0.96
6/1/2020	1.71%	2.20%	-0.49%	-0.06
6/2/2020	1.20%	2.41%	-1.20%	-0.14
6/3/2020	6.03%	3.07%	2.96%	0.33
6/4/2020	0.67%	1.09%	-0.42%	-0.05
6/5/2020	-7.67%	4.20%	-11.87%	-1.34
6/8/2020	19.07%	3.01%	16.06%	1.82
6/9/2020	-1.00%	0.44%	-1.44%	-0.16
6/10/2020	2.19%	0.73%	1.46%	0.17
6/11/2020	-14.86%	-5.17%	-9.69%	-1.10
6/12/2020	7.70%	2.98%	4.73%	0.53
6/15/2020	-0.64%	2.67%	-3.31%	-0.37
6/16/2020	-1.07%	3.43%	-4.50%	-0.51
6/17/2020	2.55%	1.04%	1.52%	0.17
6/18/2020	3.91%	1.60%	2.32%	0.26
6/19/2020	-1.42%	0.95%	-2.38%	-0.27
6/22/2020	-0.21%	2.24%	-2.45%	-0.28
6/23/2020	-0.82%	1.88%	-2.70%	-0.31
6/24/2020	-9.10%	-1.44%	-7.66%	-0.87
6/25/2020	1.13%	2.71%	-1.58%	-0.18
6/26/2020	-2.50%	-1.13%	-1.36%	-0.15
6/29/2020	0.69%	3.07%	-2.38%	-0.27
6/30/2020	-0.92%	3.08%	-3.99%	-0.45

Exhibit-7e

GME Event Study Results

January 28, 2020 through January 27, 2021

Date	GME LN Return	GME Explained Return	GME Residual Return	*t*-statistic[1]
7/1/2020	2.28%	1.98%	0.30%	0.03
7/2/2020	-3.44%	1.99%	-5.43%	-0.61
7/6/2020	-1.17%	3.11%	-4.29%	-0.48
7/7/2020	-3.60%	0.32%	-3.93%	-0.44
7/8/2020	4.07%	2.40%	1.67%	0.19
7/9/2020	-1.18%	0.84%	-2.02%	-0.23
7/10/2020	3.04%	2.68%	0.36%	0.04
7/13/2020	-1.86%	0.17%	-2.03%	-0.23
7/14/2020	-4.32%	2.93%	-7.25%	-0.82
7/15/2020	2.66%	2.76%	-0.10%	-0.01
7/16/2020	-0.48%	1.03%	-1.51%	-0.17
7/17/2020	-5.17%	1.79%	-6.95%	-0.79
7/20/2020	-2.82%	2.43%	-5.24%	-0.59
7/21/2020	4.07%	1.70%	2.37%	0.27
7/22/2020	2.46%	2.05%	0.41%	0.05
7/23/2020	0.00%	0.23%	-0.23%	-0.03
7/24/2020	-1.97%	0.70%	-2.67%	-0.30
7/27/2020	-0.50%	2.48%	-2.98%	-0.34
7/28/2020	-1.76%	0.68%	-2.44%	-0.28
7/29/2020	3.00%	2.94%	0.07%	0.01
7/30/2020	0.98%	1.07%	-0.09%	-0.01
7/31/2020	-2.22%	1.96%	-4.17%	-0.47
8/3/2020	3.43%	2.45%	0.99%	0.11
8/4/2020	6.53%	1.99%	4.54%	0.51
8/5/2020	4.42%	2.27%	2.14%	0.24
8/6/2020	-4.42%	1.99%	-6.41%	-0.72
8/7/2020	-6.29%	1.46%	-7.75%	-0.88
8/10/2020	4.01%	1.73%	2.27%	0.26
8/11/2020	0.46%	0.55%	-0.09%	-0.01
8/12/2020	3.83%	2.92%	0.92%	0.10
8/13/2020	2.62%	1.41%	1.21%	0.14
8/14/2020	2.34%	1.40%	0.94%	0.11
8/17/2020	-2.56%	2.03%	-4.58%	-0.52
8/18/2020	3.81%	1.63%	2.18%	0.25
8/19/2020	-1.89%	0.97%	-2.86%	-0.32
8/20/2020	-2.36%	1.78%	-4.14%	-0.47

Exhibit-7e

GME Event Study Results

January 28, 2020 through January 27, 2021

Date	GME LN Return	GME Explained Return	GME Residual Return	*t*-statistic[1]	
8/21/2020	8.72%	1.64%	7.08%	0.80	
8/24/2020	-3.23%	2.44%	-5.67%	-0.64	
8/25/2020	2.23%	1.83%	0.40%	0.05	
8/26/2020	2.58%	2.53%	0.05%	0.01	
8/27/2020	2.70%	1.59%	1.12%	0.13	
8/28/2020	2.63%	2.21%	0.42%	0.05	
8/31/2020	21.46%	1.30%	20.16%	2.28	*
9/1/2020	13.56%	2.45%	11.11%	1.26	
9/2/2020	0.78%	2.79%	-2.01%	-0.23	
9/3/2020	1.42%	-2.42%	3.83%	0.43	
9/4/2020	-2.20%	0.54%	-2.74%	-0.31	
9/8/2020	0.65%	-1.55%	2.20%	0.25	
9/9/2020	-4.65%	3.62%	-8.28%	-0.94	
9/10/2020	-16.53%	-0.30%	-16.23%	-1.84	
9/11/2020	-2.27%	1.45%	-3.72%	-0.42	
9/14/2020	12.63%	3.14%	9.49%	1.07	
9/15/2020	2.57%	2.10%	0.48%	0.05	
9/16/2020	20.23%	1.09%	19.15%	2.17	*
9/17/2020	5.82%	0.56%	5.26%	0.59	
9/18/2020	2.89%	0.50%	2.40%	0.27	
9/21/2020	-7.91%	0.10%	-8.01%	-0.91	
9/22/2020	18.80%	2.51%	16.29%	1.84	
9/23/2020	-5.05%	-1.27%	-3.78%	-0.43	
9/24/2020	-9.39%	1.67%	-11.06%	-1.25	
9/25/2020	9.19%	3.19%	6.00%	0.68	
9/28/2020	0.70%	3.31%	-2.61%	-0.30	
9/29/2020	2.54%	1.02%	1.52%	0.17	
9/30/2020	-1.46%	2.23%	-3.69%	-0.42	
10/1/2020	-4.31%	2.40%	-6.70%	-0.76	
10/2/2020	-3.97%	0.56%	-4.53%	-0.51	
10/5/2020	0.74%	3.50%	-2.76%	-0.31	
10/6/2020	-3.55%	0.09%	-3.64%	-0.41	
10/7/2020	2.49%	3.39%	-0.90%	-0.10	
10/8/2020	36.55%	2.40%	34.15%	3.86	*
10/9/2020	-11.54%	2.41%	-13.95%	-1.58	
10/12/2020	-1.85%	2.93%	-4.78%	-0.54	

Exhibit-7e

GME Event Study Results

January 28, 2020 through January 27, 2021

Date	GME LN Return	GME Explained Return	GME Residual Return	*t*-statistic[1]
10/13/2020	0.68%	0.96%	-0.29%	-0.03
10/14/2020	3.07%	0.77%	2.30%	0.26
10/15/2020	12.13%	1.40%	10.73%	1.21
10/16/2020	-3.83%	1.36%	-5.19%	-0.59
10/19/2020	4.41%	-0.11%	4.52%	0.51
10/20/2020	-0.36%	1.86%	-2.22%	-0.25
10/21/2020	1.72%	1.00%	0.71%	0.08
10/22/2020	5.59%	2.11%	3.48%	0.39
10/23/2020	0.60%	1.90%	-1.29%	-0.15
10/26/2020	-10.91%	-0.57%	-10.34%	-1.17
10/27/2020	-5.82%	1.13%	-6.94%	-0.79
10/28/2020	-7.10%	-2.21%	-4.89%	-0.55
10/29/2020	-0.76%	2.63%	-3.40%	-0.38
10/30/2020	-11.36%	-0.05%	-11.31%	-1.28
11/2/2020	2.64%	2.81%	-0.17%	-0.02
11/3/2020	7.35%	3.55%	3.80%	0.43
11/4/2020	-5.87%	3.61%	-9.48%	-1.07
11/5/2020	4.83%	3.80%	1.03%	0.12
11/6/2020	3.52%	1.46%	2.05%	0.23
11/9/2020	-3.17%	2.49%	-5.66%	-0.64
11/10/2020	-3.45%	1.43%	-4.89%	-0.55
11/11/2020	5.69%	2.37%	3.32%	0.38
11/12/2020	-5.42%	0.38%	-5.80%	-0.66
11/13/2020	-1.08%	2.91%	-3.99%	-0.45
11/16/2020	9.11%	2.81%	6.30%	0.71
11/17/2020	-3.63%	1.29%	-4.92%	-0.56
11/18/2020	-0.52%	0.46%	-0.98%	-0.11
11/19/2020	7.41%	2.12%	5.29%	0.60
11/20/2020	1.99%	1.00%	0.99%	0.11
11/23/2020	8.95%	2.33%	6.62%	0.75
11/24/2020	-1.67%	3.13%	-4.80%	-0.54
11/25/2020	7.60%	1.49%	6.12%	0.69
11/27/2020	8.63%	1.92%	6.72%	0.76
11/30/2020	2.94%	0.82%	2.12%	0.24
12/1/2020	-4.70%	2.56%	-7.26%	-0.82
12/2/2020	4.82%	1.57%	3.25%	0.37

Exhibit-7e

GME Event Study Results

January 28, 2020 through January 27, 2021

Date	GME LN Return	GME Explained Return	GME Residual Return	*t*-statistic[1]	
12/3/2020	-2.81%	1.70%	-4.51%	-0.51	
12/4/2020	4.73%	2.61%	2.12%	0.24	
12/7/2020	-3.31%	1.47%	-4.78%	-0.54	
12/8/2020	3.54%	1.91%	1.63%	0.18	
12/9/2020	-21.52%	0.38%	-21.90%	-2.48	*
12/10/2020	3.31%	1.76%	1.56%	0.18	
12/11/2020	-5.91%	1.22%	-7.12%	-0.81	
12/14/2020	-4.53%	1.14%	-5.68%	-0.64	
12/15/2020	8.51%	2.90%	5.61%	0.63	
12/16/2020	0.00%	1.64%	-1.64%	-0.19	
12/17/2020	6.84%	2.35%	4.48%	0.51	
12/18/2020	5.25%	1.22%	4.03%	0.46	
12/21/2020	-0.64%	1.14%	-1.78%	-0.20	
12/22/2020	22.56%	1.52%	21.04%	2.38	*
12/23/2020	5.55%	1.58%	3.97%	0.45	
12/24/2020	-2.06%	1.72%	-3.78%	-0.43	
12/28/2020	4.08%	1.88%	2.21%	0.25	
12/29/2020	-7.98%	1.08%	-9.06%	-1.02	
12/30/2020	-0.62%	1.81%	-2.43%	-0.28	
12/31/2020	-2.20%	1.88%	-4.08%	-0.46	
1/4/2021	-8.82%	-0.01%	-8.80%	-1.00	
1/5/2021	0.69%	2.45%	-1.76%	-0.20	
1/6/2021	5.54%	2.35%	3.19%	0.36	
1/7/2021	-1.54%	3.27%	-4.80%	-0.54	
1/8/2021	-2.18%	1.98%	-4.16%	-0.47	
1/11/2021	11.97%	0.83%	11.14%	1.26	
1/12/2021	0.05%	1.95%	-1.90%	-0.21	
1/13/2021	45.36%	1.58%	43.78%	4.95	*
1/14/2021	23.98%	1.45%	22.53%	2.55	*
1/15/2021	-11.71%	0.50%	-12.21%	-1.38	
1/19/2021	10.32%	2.39%	7.93%	0.90	
1/20/2021	-0.61%	2.93%	-3.54%	-0.40	
1/21/2021	9.53%	1.36%	8.17%	0.92	
1/22/2021	41.26%	1.27%	39.99%	4.52	*
1/25/2021	16.65%	1.70%	14.95%	1.69	
1/26/2021	65.60%	1.15%	64.45%	7.29	*

Exhibit-7e

GME Event Study Results

January 28, 2020 through January 27, 2021

Date	GME LN Return	GME Explained Return	GME Residual Return	*t*-statistic[1]	
1/27/2021	85.37%	-1.39%	86.77%	9.81	*

Note:
[1] *t*-statistics marked with a "*" are significant at the 95% confidence level.
[2] All returns are logarithmic returns.

Exhibit-7f

KOSS Event Study Results

January 28, 2020 through January 27, 2021

Date	KOSS LN Return	KOSS Explained Return	KOSS Residual Return	*t*-statistic[1]
1/28/2020	1.97%	1.20%	0.77%	0.09
1/29/2020	1.09%	0.84%	0.25%	0.03
1/30/2020	3.24%	0.98%	2.26%	0.28
1/31/2020	-8.48%	0.16%	-8.63%	-1.05
2/3/2020	-0.50%	1.18%	-1.67%	-0.20
2/4/2020	0.68%	1.53%	-0.85%	-0.10
2/5/2020	-2.74%	1.20%	-3.94%	-0.48
2/6/2020	0.00%	0.96%	-0.96%	-0.12
2/7/2020	1.43%	0.60%	0.83%	0.10
2/10/2020	-1.43%	1.12%	-2.54%	-0.31
2/11/2020	0.00%	0.97%	-0.97%	-0.12
2/12/2020	2.67%	1.14%	1.53%	0.19
2/13/2020	-0.60%	0.81%	-1.41%	-0.17
2/14/2020	-1.38%	0.90%	-2.28%	-0.28
2/18/2020	-0.69%	0.78%	-1.48%	-0.18
2/19/2020	-5.72%	1.05%	-6.77%	-0.83
2/20/2020	2.18%	0.72%	1.47%	0.18
2/21/2020	0.72%	0.42%	0.29%	0.04
2/24/2020	-0.72%	-0.55%	-0.17%	-0.02
2/25/2020	-3.42%	-0.40%	-3.02%	-0.37
2/26/2020	-8.80%	0.65%	-9.45%	-1.15
2/27/2020	2.00%	-0.99%	3.00%	0.37
2/28/2020	-5.27%	0.53%	-5.80%	-0.71
3/2/2020	5.67%	2.53%	3.13%	0.38
3/3/2020	-1.59%	-0.28%	-1.31%	-0.16
3/4/2020	-3.28%	2.40%	-5.68%	-0.69
3/5/2020	0.00%	-0.50%	0.50%	0.06
3/6/2020	-4.26%	0.11%	-4.36%	-0.53
3/9/2020	-10.52%	-2.66%	-7.85%	-0.96
3/10/2020	2.37%	2.69%	-0.32%	-0.04
3/11/2020	-3.85%	-1.23%	-2.62%	-0.32
3/12/2020	-1.99%	-3.39%	1.40%	0.17
3/13/2020	-6.18%	4.49%	-10.67%	-1.30
3/16/2020	5.18%	-4.32%	9.51%	1.16
3/17/2020	0.98%	3.19%	-2.21%	-0.27
3/18/2020	-10.51%	-1.66%	-8.84%	-1.08

Exhibit-7f

KOSS Event Study Results

January 28, 2020 through January 27, 2021

Date	KOSS LN Return	KOSS Explained Return	KOSS Residual Return	*t*-statistic[1]	
3/19/2020	0.01%	1.39%	-1.38%	-0.17	
3/20/2020	-8.10%	-0.76%	-7.34%	-0.89	
3/23/2020	4.89%	-0.17%	5.06%	0.62	
3/24/2020	4.85%	4.32%	0.53%	0.06	
3/25/2020	-9.70%	1.35%	-11.05%	-1.35	
3/26/2020	4.69%	3.26%	1.44%	0.18	
3/27/2020	2.24%	-0.57%	2.81%	0.34	
3/30/2020	-0.77%	2.15%	-2.91%	-0.36	
3/31/2020	-0.36%	0.43%	-0.79%	-0.10	
4/1/2020	-4.65%	-1.04%	-3.61%	-0.44	
4/2/2020	2.34%	1.76%	0.58%	0.07	
4/3/2020	-4.75%	0.17%	-4.92%	-0.60	
4/6/2020	3.00%	3.46%	-0.46%	-0.06	
4/7/2020	0.11%	0.82%	-0.71%	-0.09	
4/8/2020	-1.93%	2.14%	-4.07%	-0.50	
4/9/2020	0.04%	1.58%	-1.54%	-0.19	
4/13/2020	13.02%	0.54%	12.48%	1.52	
4/14/2020	-0.25%	2.00%	-2.25%	-0.27	
4/15/2020	25.75%	-0.04%	25.79%	3.14	*
4/16/2020	-0.82%	1.02%	-1.85%	-0.23	
4/17/2020	-7.73%	1.93%	-9.66%	-1.18	
4/20/2020	-3.30%	0.25%	-3.56%	-0.43	
4/21/2020	6.81%	-0.47%	7.28%	0.89	
4/22/2020	-0.87%	1.79%	-2.66%	-0.32	
4/23/2020	3.42%	0.88%	2.54%	0.31	
4/24/2020	4.12%	1.33%	2.78%	0.34	
4/27/2020	9.24%	1.49%	7.74%	0.94	
4/28/2020	4.32%	0.53%	3.78%	0.46	
4/29/2020	0.06%	2.02%	-1.96%	-0.24	
4/30/2020	-7.36%	0.38%	-7.74%	-0.94	
5/1/2020	-9.52%	-0.37%	-9.15%	-1.12	
5/4/2020	2.59%	1.07%	1.52%	0.19	
5/5/2020	-2.60%	1.21%	-3.81%	-0.46	
5/6/2020	2.47%	0.63%	1.84%	0.22	
5/7/2020	0.00%	1.45%	-1.45%	-0.18	
5/8/2020	-9.37%	1.52%	-10.89%	-1.33	

Exhibit-7f

KOSS Event Study Results

January 28, 2020 through January 27, 2021

Date	KOSS LN Return	KOSS Explained Return	KOSS Residual Return	*t*-statistic[1]	
5/11/2020	6.90%	0.89%	6.01%	0.73	
5/12/2020	-2.53%	0.01%	-2.54%	-0.31	
5/13/2020	-5.26%	0.07%	-5.34%	-0.65	
5/14/2020	-3.67%	1.27%	-4.94%	-0.60	
5/15/2020	7.64%	1.04%	6.61%	0.81	
5/18/2020	-1.54%	2.04%	-3.58%	-0.44	
5/19/2020	-2.43%	0.39%	-2.82%	-0.34	
5/20/2020	2.67%	1.62%	1.05%	0.13	
5/21/2020	-1.77%	0.49%	-2.26%	-0.28	
5/22/2020	1.77%	0.93%	0.84%	0.10	
5/26/2020	0.45%	1.36%	-0.92%	-0.11	
5/27/2020	0.43%	1.38%	-0.95%	-0.12	
5/28/2020	-4.45%	0.82%	-5.27%	-0.64	
5/29/2020	2.69%	1.08%	1.61%	0.20	
6/1/2020	0.00%	1.13%	-1.13%	-0.14	
6/2/2020	11.68%	1.18%	10.50%	1.28	
6/3/2020	-1.19%	1.38%	-2.57%	-0.31	
6/4/2020	-4.90%	0.76%	-5.66%	-0.69	
6/5/2020	4.50%	1.85%	2.65%	0.32	
6/8/2020	2.37%	1.45%	0.92%	0.11	
6/9/2020	9.67%	0.46%	9.22%	1.12	
6/10/2020	-10.24%	0.56%	-10.81%	-1.32	
6/11/2020	-9.28%	-1.62%	-7.66%	-0.93	
6/12/2020	17.37%	1.39%	15.98%	1.95	
6/15/2020	0.73%	1.23%	-0.50%	-0.06	
6/16/2020	34.36%	1.55%	32.80%	4.00	*
6/17/2020	-13.06%	0.65%	-13.72%	-1.67	
6/18/2020	-4.15%	0.95%	-5.11%	-0.62	
6/19/2020	-2.45%	0.66%	-3.12%	-0.38	
6/22/2020	8.91%	1.14%	7.77%	0.95	
6/23/2020	-12.71%	0.99%	-13.69%	-1.67	
6/24/2020	-4.62%	-0.24%	-4.38%	-0.53	
6/25/2020	-1.46%	1.35%	-2.81%	-0.34	
6/26/2020	-4.10%	-0.16%	-3.94%	-0.48	
6/29/2020	1.42%	1.40%	0.01%	0.00	
6/30/2020	-4.32%	1.46%	-5.77%	-0.70	

Exhibit-7f

KOSS Event Study Results

January 28, 2020 through January 27, 2021

Date	KOSS LN Return	KOSS Explained Return	KOSS Residual Return	*t*-statistic[1]	
7/1/2020	8.46%	1.10%	7.36%	0.90	
7/2/2020	0.00%	1.05%	-1.05%	-0.13	
7/6/2020	0.00%	1.42%	-1.42%	-0.17	
7/7/2020	-3.44%	0.39%	-3.83%	-0.47	
7/8/2020	1.63%	1.15%	0.48%	0.06	
7/9/2020	21.38%	0.70%	20.68%	2.52	*
7/10/2020	-1.12%	1.26%	-2.38%	-0.29	
7/13/2020	-15.13%	0.38%	-15.51%	-1.89	
7/14/2020	3.22%	1.35%	1.87%	0.23	
7/15/2020	-0.01%	1.31%	-1.31%	-0.16	
7/16/2020	2.19%	0.60%	1.59%	0.19	
7/17/2020	-2.19%	1.01%	-3.20%	-0.39	
7/20/2020	0.00%	1.24%	-1.24%	-0.15	
7/21/2020	3.21%	0.95%	2.25%	0.27	
7/22/2020	5.86%	0.95%	4.91%	0.60	
7/23/2020	2.29%	0.33%	1.96%	0.24	
7/24/2020	7.09%	0.52%	6.57%	0.80	
7/27/2020	6.62%	1.13%	5.48%	0.67	
7/28/2020	-0.99%	0.60%	-1.59%	-0.19	
7/29/2020	-7.22%	1.38%	-8.60%	-1.05	
7/30/2020	1.59%	0.68%	0.91%	0.11	
7/31/2020	0.00%	1.07%	-1.07%	-0.13	
8/3/2020	2.08%	1.20%	0.88%	0.11	
8/4/2020	18.32%	1.06%	17.26%	2.10	*
8/5/2020	-3.94%	1.14%	-5.07%	-0.62	
8/6/2020	4.37%	1.06%	3.31%	0.40	
8/7/2020	-0.43%	0.84%	-1.28%	-0.16	
8/10/2020	2.96%	0.90%	2.06%	0.25	
8/11/2020	-15.28%	0.50%	-15.77%	-1.92	
8/12/2020	1.92%	1.38%	0.54%	0.07	
8/13/2020	-0.48%	0.81%	-1.29%	-0.16	
8/14/2020	-2.42%	0.81%	-3.23%	-0.39	
8/17/2020	2.90%	1.01%	1.89%	0.23	
8/18/2020	11.24%	0.91%	10.34%	1.26	
8/19/2020	-7.96%	0.65%	-8.61%	-1.05	
8/20/2020	20.36%	0.97%	19.38%	2.36	*

Exhibit-7f

KOSS Event Study Results

January 28, 2020 through January 27, 2021

Date	KOSS LN Return	KOSS Explained Return	KOSS Residual Return	*t*-statistic[1]
8/21/2020	-13.67%	0.87%	-14.54%	-1.77
8/24/2020	0.86%	1.23%	-0.37%	-0.05
8/25/2020	-0.86%	1.02%	-1.88%	-0.23
8/26/2020	-8.08%	1.26%	-9.34%	-1.14
8/27/2020	5.90%	0.95%	4.95%	0.60
8/28/2020	-1.33%	1.16%	-2.49%	-0.30
8/31/2020	-3.24%	0.81%	-4.05%	-0.49
9/1/2020	-5.62%	1.17%	-6.79%	-0.83
9/2/2020	0.97%	1.37%	-0.40%	-0.05
9/3/2020	-6.49%	-0.62%	-5.87%	-0.72
9/4/2020	-1.60%	0.52%	-2.12%	-0.26
9/8/2020	3.64%	-0.38%	4.02%	0.49
9/9/2020	-1.53%	1.66%	-3.19%	-0.39
9/10/2020	1.02%	0.14%	0.88%	0.11
9/11/2020	5.43%	0.77%	4.66%	0.57
9/14/2020	3.31%	1.48%	1.83%	0.22
9/15/2020	-4.76%	1.14%	-5.90%	-0.72
9/16/2020	0.97%	0.62%	0.35%	0.04
9/17/2020	3.79%	0.51%	3.28%	0.40
9/18/2020	-3.79%	0.47%	-4.26%	-0.52
9/21/2020	4.26%	0.33%	3.93%	0.48
9/22/2020	-0.93%	1.18%	-2.11%	-0.26
9/23/2020	1.39%	-0.15%	1.54%	0.19
9/24/2020	6.68%	0.91%	5.77%	0.70
9/25/2020	-4.63%	1.55%	-6.18%	-0.75
9/28/2020	-0.68%	1.48%	-2.16%	-0.26
9/29/2020	-2.77%	0.70%	-3.46%	-0.42
9/30/2020	0.00%	1.10%	-1.10%	-0.13
10/1/2020	1.39%	1.15%	0.24%	0.03
10/2/2020	-0.69%	0.46%	-1.16%	-0.14
10/5/2020	-0.23%	1.66%	-1.89%	-0.23
10/6/2020	0.00%	0.35%	-0.35%	-0.04
10/7/2020	2.30%	1.57%	0.73%	0.09
10/8/2020	-0.46%	1.14%	-1.60%	-0.19
10/9/2020	-0.92%	1.22%	-2.14%	-0.26
10/12/2020	6.25%	1.44%	4.81%	0.59

Exhibit-7f

KOSS Event Study Results

January 28, 2020 through January 27, 2021

Date	KOSS LN Return	KOSS Explained Return	KOSS Residual Return	*t*-statistic[1]	
10/13/2020	-5.33%	0.64%	-5.98%	-0.73	
10/14/2020	0.46%	0.56%	-0.10%	-0.01	
10/15/2020	-6.09%	0.78%	-6.87%	-0.84	
10/16/2020	6.14%	0.84%	5.30%	0.65	
10/19/2020	-3.27%	0.26%	-3.54%	-0.43	
10/20/2020	6.80%	0.98%	5.82%	0.71	
10/21/2020	-1.77%	0.78%	-2.55%	-0.31	
10/22/2020	-4.10%	1.19%	-5.29%	-0.65	
10/23/2020	0.62%	0.94%	-0.33%	-0.04	
10/26/2020	-1.08%	0.11%	-1.19%	-0.15	
10/27/2020	2.31%	0.76%	1.55%	0.19	
10/28/2020	-4.37%	-0.64%	-3.73%	-0.45	
10/29/2020	-1.04%	1.32%	-2.35%	-0.29	
10/30/2020	1.92%	0.23%	1.69%	0.21	
11/2/2020	-4.10%	1.26%	-5.36%	-0.65	
11/3/2020	3.63%	1.65%	1.98%	0.24	
11/4/2020	-0.24%	1.62%	-1.86%	-0.23	
11/5/2020	-1.92%	1.78%	-3.71%	-0.45	
11/6/2020	0.00%	0.91%	-0.91%	-0.11	
11/9/2020	0.00%	1.48%	-1.48%	-0.18	
11/10/2020	2.16%	0.69%	1.47%	0.18	
11/11/2020	2.58%	1.17%	1.41%	0.17	
11/12/2020	-3.77%	0.46%	-4.24%	-0.52	
11/13/2020	3.77%	1.36%	2.41%	0.29	
11/16/2020	-2.82%	1.36%	-4.18%	-0.51	
11/17/2020	0.95%	0.78%	0.17%	0.02	
11/18/2020	-1.43%	0.42%	-1.84%	-0.22	
11/19/2020	0.00%	1.11%	-1.11%	-0.14	
11/20/2020	-0.72%	0.65%	-1.37%	-0.17	
11/23/2020	0.72%	1.14%	-0.42%	-0.05	
11/24/2020	2.96%	1.55%	1.41%	0.17	
11/25/2020	-1.00%	0.83%	-1.84%	-0.22	
11/27/2020	3.15%	1.02%	2.12%	0.26	
11/30/2020	-1.80%	0.64%	-2.44%	-0.30	
12/1/2020	25.95%	1.31%	24.64%	3.00	*
12/2/2020	-8.96%	0.98%	-9.94%	-1.21	

Exhibit-7f

KOSS Event Study Results

January 28, 2020 through January 27, 2021

Date	KOSS LN Return	KOSS Explained Return	KOSS Residual Return	*t*-statistic[1]	
12/3/2020	5.32%	0.84%	4.49%	0.55	
12/4/2020	-6.11%	1.34%	-7.45%	-0.91	
12/7/2020	1.17%	0.78%	0.40%	0.05	
12/8/2020	-2.36%	1.12%	-3.48%	-0.42	
12/9/2020	-0.40%	0.42%	-0.82%	-0.10	
12/10/2020	-5.10%	0.97%	-6.08%	-0.74	
12/11/2020	-0.03%	0.73%	-0.76%	-0.09	
12/14/2020	3.11%	0.69%	2.42%	0.30	
12/15/2020	2.02%	1.41%	0.61%	0.07	
12/16/2020	1.98%	0.91%	1.07%	0.13	
12/17/2020	0.00%	1.10%	-1.10%	-0.13	
12/18/2020	-6.90%	0.73%	-7.63%	-0.93	
12/21/2020	3.71%	0.74%	2.97%	0.36	
12/22/2020	-1.22%	0.85%	-2.08%	-0.25	
12/23/2020	-4.18%	0.93%	-5.12%	-0.62	
12/24/2020	0.00%	0.90%	-0.90%	-0.11	
12/28/2020	2.53%	1.06%	1.47%	0.18	
12/29/2020	36.00%	0.70%	35.30%	4.30	*
12/30/2020	7.29%	0.98%	6.31%	0.77	
12/31/2020	-7.29%	1.04%	-8.33%	-1.02	
1/4/2021	-7.55%	0.30%	-7.84%	-0.96	
1/5/2021	-2.54%	1.27%	-3.81%	-0.46	
1/6/2021	-1.95%	1.20%	-3.14%	-0.38	
1/7/2021	3.23%	1.50%	1.72%	0.21	
1/8/2021	3.74%	1.10%	2.63%	0.32	
1/11/2021	-2.16%	0.54%	-2.71%	-0.33	
1/12/2021	1.24%	0.99%	0.24%	0.03	
1/13/2021	-4.10%	0.88%	-4.97%	-0.61	
1/14/2021	-1.29%	0.84%	-2.14%	-0.26	
1/15/2021	-5.70%	0.44%	-6.13%	-0.75	
1/19/2021	22.18%	1.17%	21.01%	2.56	*
1/20/2021	-5.39%	1.29%	-6.68%	-0.81	
1/21/2021	3.16%	0.76%	2.40%	0.29	
1/22/2021	-5.82%	0.75%	-6.56%	-0.80	
1/25/2021	58.58%	0.92%	57.66%	7.03	*
1/26/2021	51.08%	0.73%	50.35%	6.14	*

Exhibit-7f

KOSS Event Study Results

January 28, 2020 through January 27, 2021

Date	KOSS LN Return	KOSS Explained Return	KOSS Residual Return	*t*-statistic[1]	
1/27/2021	175.79%	-0.24%	176.03%	21.46	*

Note:
[1] *t*-statistics marked with a "*" are significant at the 95% confidence level.
[2] All returns are logarithmic returns.

Exhibit-7g

NOK Event Study Results

January 28, 2020 through January 27, 2021

Date	NOK LN Return	NOK Explained Return	NOK Residual Return	*t*-statistic[1]	
1/28/2020	2.01%	0.94%	1.07%	0.49	
1/29/2020	-2.77%	-0.15%	-2.62%	-1.20	
1/30/2020	1.27%	0.29%	0.98%	0.45	
1/31/2020	-2.04%	-1.70%	-0.34%	-0.16	
2/3/2020	0.00%	0.77%	-0.77%	-0.35	
2/4/2020	2.04%	1.51%	0.53%	0.24	
2/5/2020	1.75%	0.96%	0.80%	0.36	
2/6/2020	4.13%	0.28%	3.85%	1.76	
2/7/2020	3.97%	-0.56%	4.53%	2.07	*
2/10/2020	-2.55%	0.74%	-3.29%	-1.51	
2/11/2020	3.46%	0.36%	3.10%	1.42	
2/12/2020	0.00%	0.68%	-0.68%	-0.31	
2/13/2020	-1.60%	-0.24%	-1.36%	-0.62	
2/14/2020	-0.23%	0.13%	-0.36%	-0.17	
2/18/2020	-1.86%	-0.20%	-1.67%	-0.76	
2/19/2020	-1.18%	0.49%	-1.67%	-0.77	
2/20/2020	-0.96%	-0.19%	-0.77%	-0.35	
2/21/2020	0.00%	-0.97%	0.97%	0.44	
2/24/2020	-3.42%	-3.26%	-0.16%	-0.07	
2/25/2020	-2.77%	-2.97%	0.19%	0.09	
2/26/2020	5.96%	-0.55%	6.51%	2.98	*
2/27/2020	-4.69%	-4.20%	-0.49%	-0.22	
2/28/2020	-2.30%	-0.83%	-1.47%	-0.67	
3/2/2020	1.54%	3.92%	-2.38%	-1.09	
3/3/2020	-3.63%	-2.46%	-1.16%	-0.53	
3/4/2020	1.83%	3.69%	-1.86%	-0.85	
3/5/2020	-5.32%	-3.21%	-2.11%	-0.96	
3/6/2020	-2.49%	-1.71%	-0.78%	-0.36	
3/9/2020	-7.56%	-8.08%	0.52%	0.24	
3/10/2020	0.30%	4.39%	-4.09%	-1.87	
3/11/2020	-5.89%	-5.21%	-0.68%	-0.31	
3/12/2020	-18.17%	-10.19%	-7.98%	-3.65	*
3/13/2020	4.86%	8.35%	-3.49%	-1.60	
3/16/2020	-12.42%	-12.44%	0.02%	0.01	
3/17/2020	4.45%	5.15%	-0.70%	-0.32	
3/18/2020	-4.03%	-5.70%	1.67%	0.76	

Exhibit-7g

NOK Event Study Results

January 28, 2020 through January 27, 2021

Date	NOK LN Return	NOK Explained Return	NOK Residual Return	*t*-statistic[1]	
3/19/2020	5.21%	1.44%	3.77%	1.73	
3/20/2020	3.83%	-3.86%	7.69%	3.52	*
3/23/2020	-0.38%	-2.74%	2.36%	1.08	
3/24/2020	10.38%	8.82%	1.56%	0.71	
3/25/2020	4.33%	1.50%	2.83%	1.30	
3/26/2020	2.57%	5.68%	-3.11%	-1.42	
3/27/2020	-4.55%	-3.41%	-1.14%	-0.52	
3/30/2020	1.32%	2.89%	-1.57%	-0.72	
3/31/2020	1.63%	-1.27%	2.89%	1.32	
4/1/2020	-4.28%	-4.51%	0.22%	0.10	
4/2/2020	2.33%	2.04%	0.29%	0.13	
4/3/2020	-2.33%	-1.58%	-0.75%	-0.35	
4/6/2020	6.20%	6.56%	-0.36%	-0.17	
4/7/2020	0.00%	0.01%	-0.01%	-0.00	
4/8/2020	2.50%	3.31%	-0.81%	-0.37	
4/9/2020	0.92%	1.71%	-0.79%	-0.36	
4/13/2020	-0.61%	-0.99%	0.38%	0.17	
4/14/2020	3.63%	2.83%	0.80%	0.37	
4/15/2020	-4.24%	-2.34%	-1.91%	-0.87	
4/16/2020	6.88%	0.43%	6.45%	2.95	*
4/17/2020	0.58%	2.73%	-2.15%	-0.98	
4/20/2020	-1.16%	-1.48%	0.33%	0.15	
4/21/2020	-2.35%	-3.03%	0.68%	0.31	
4/22/2020	0.59%	2.22%	-1.63%	-0.75	
4/23/2020	0.30%	0.13%	0.17%	0.08	
4/24/2020	0.00%	1.33%	-1.33%	-0.61	
4/27/2020	2.04%	1.73%	0.32%	0.15	
4/28/2020	-1.46%	-0.27%	-1.19%	-0.54	
4/29/2020	2.89%	2.81%	0.08%	0.04	
4/30/2020	1.97%	-1.35%	3.32%	1.52	
5/1/2020	0.56%	-2.85%	3.41%	1.56	
5/4/2020	-1.40%	0.52%	-1.92%	-0.88	
5/5/2020	-2.57%	0.87%	-3.44%	-1.57	
5/6/2020	0.00%	-0.59%	0.59%	0.27	
5/7/2020	2.57%	1.31%	1.26%	0.58	
5/8/2020	0.84%	1.91%	-1.07%	-0.49	

Exhibit-7g

NOK Event Study Results

January 28, 2020 through January 27, 2021

Date	NOK LN Return	NOK Explained Return	NOK Residual Return	*t*-statistic[1]	
5/11/2020	-0.28%	0.00%	-0.28%	-0.13	
5/12/2020	0.00%	-1.97%	1.97%	0.90	
5/13/2020	-3.71%	-1.95%	-1.76%	-0.81	
5/14/2020	-0.58%	1.13%	-1.72%	-0.79	
5/15/2020	0.87%	0.56%	0.32%	0.14	
5/18/2020	5.64%	3.24%	2.40%	1.10	
5/19/2020	1.09%	-0.95%	2.04%	0.93	
5/20/2020	3.46%	1.74%	1.73%	0.79	
5/21/2020	-1.32%	-0.69%	-0.62%	-0.29	
5/22/2020	2.10%	0.27%	1.83%	0.84	
5/26/2020	0.00%	1.37%	-1.37%	-0.63	
5/27/2020	1.55%	1.52%	0.02%	0.01	
5/28/2020	0.26%	-0.35%	0.61%	0.28	
5/29/2020	0.76%	0.64%	0.12%	0.06	
6/1/2020	6.14%	0.55%	5.59%	2.56	*
6/2/2020	2.59%	0.86%	1.73%	0.79	
6/3/2020	1.38%	1.45%	-0.07%	-0.03	
6/4/2020	-2.08%	-0.28%	-1.80%	-0.82	
6/5/2020	4.12%	2.47%	1.65%	0.75	
6/8/2020	1.34%	1.39%	-0.06%	-0.03	
6/9/2020	-2.24%	-0.93%	-1.31%	-0.60	
6/10/2020	0.68%	-0.67%	1.35%	0.62	
6/11/2020	-7.95%	-6.06%	-1.89%	-0.86	
6/12/2020	2.17%	1.48%	0.68%	0.31	
6/15/2020	1.89%	1.04%	0.84%	0.39	
6/16/2020	1.39%	1.79%	-0.40%	-0.18	
6/17/2020	1.60%	-0.42%	2.02%	0.92	
6/18/2020	-0.91%	0.10%	-1.01%	-0.46	
6/19/2020	-0.92%	-0.48%	-0.44%	-0.20	
6/22/2020	0.00%	0.64%	-0.64%	-0.29	
6/23/2020	0.00%	0.41%	-0.41%	-0.19	
6/24/2020	-3.05%	-2.54%	-0.50%	-0.23	
6/25/2020	5.78%	1.12%	4.66%	2.13	*
6/26/2020	-2.50%	-2.11%	-0.39%	-0.18	
6/29/2020	0.23%	1.37%	-1.14%	-0.52	
6/30/2020	1.14%	1.45%	-0.31%	-0.14	

Exhibit-7g

NOK Event Study Results

January 28, 2020 through January 27, 2021

Date	NOK LN Return	NOK Explained Return	NOK Residual Return	*t*-statistic[1]	
7/1/2020	-1.14%	0.34%	-1.48%	-0.68	
7/2/2020	2.05%	0.49%	1.56%	0.71	
7/6/2020	3.54%	1.49%	2.05%	0.94	
7/7/2020	-6.51%	-1.06%	-5.45%	-2.50	*
7/8/2020	-3.78%	0.83%	-4.62%	-2.11	*
7/9/2020	0.48%	-0.45%	0.93%	0.43	
7/10/2020	-1.21%	0.98%	-2.19%	-1.00	
7/13/2020	1.45%	-1.12%	2.56%	1.17	
7/14/2020	3.29%	1.32%	1.98%	0.91	
7/15/2020	0.23%	1.15%	-0.92%	-0.42	
7/16/2020	-2.10%	-0.41%	-1.69%	-0.77	
7/17/2020	3.48%	0.45%	3.02%	1.38	
7/20/2020	1.36%	0.85%	0.51%	0.23	
7/21/2020	-0.45%	0.25%	-0.70%	-0.32	
7/22/2020	1.57%	0.51%	1.06%	0.48	
7/23/2020	-2.93%	-0.98%	-1.95%	-0.89	
7/24/2020	-1.61%	-0.74%	-0.87%	-0.40	
7/27/2020	0.93%	0.94%	-0.01%	-0.01	
7/28/2020	-1.39%	-0.75%	-0.64%	-0.29	
7/29/2020	1.39%	1.34%	0.05%	0.02	
7/30/2020	2.50%	-0.37%	2.87%	1.31	
7/31/2020	7.15%	0.51%	6.65%	3.04	*
8/3/2020	5.69%	0.84%	4.85%	2.22	*
8/4/2020	0.79%	0.49%	0.30%	0.14	
8/5/2020	-1.98%	0.68%	-2.66%	-1.22	
8/6/2020	0.00%	0.51%	-0.51%	-0.23	
8/7/2020	-0.40%	0.01%	-0.41%	-0.19	
8/10/2020	-1.42%	0.27%	-1.69%	-0.77	
8/11/2020	1.01%	-0.79%	1.80%	0.83	
8/12/2020	1.80%	1.32%	0.48%	0.22	
8/13/2020	0.20%	-0.45%	0.65%	0.30	
8/14/2020	-1.19%	-0.07%	-1.12%	-0.51	
8/17/2020	1.39%	0.46%	0.93%	0.42	
8/18/2020	0.39%	0.15%	0.24%	0.11	
8/19/2020	-0.99%	-0.41%	-0.58%	-0.26	
8/20/2020	0.20%	0.32%	-0.12%	-0.06	

Exhibit-7g

NOK Event Study Results

January 28, 2020 through January 27, 2021

Date	NOK LN Return	NOK Explained Return	NOK Residual Return	*t*-statistic[1]	
8/21/2020	-1.60%	0.16%	-1.76%	-0.81	
8/24/2020	1.20%	0.86%	0.34%	0.16	
8/25/2020	0.20%	0.32%	-0.12%	-0.06	
8/26/2020	0.20%	0.87%	-0.67%	-0.31	
8/27/2020	-0.80%	0.17%	-0.96%	-0.44	
8/28/2020	-0.80%	0.67%	-1.48%	-0.68	
8/31/2020	-1.42%	-0.12%	-1.30%	-0.59	
9/1/2020	-3.53%	0.80%	-4.33%	-1.98	*
9/2/2020	1.05%	1.21%	-0.16%	-0.07	
9/3/2020	-5.37%	-3.45%	-1.93%	-0.88	
9/4/2020	-1.11%	-0.78%	-0.33%	-0.15	
9/8/2020	-8.86%	-2.66%	-6.20%	-2.84	*
9/9/2020	0.97%	1.91%	-0.94%	-0.43	
9/10/2020	-0.97%	-1.55%	0.58%	0.27	
9/11/2020	0.00%	0.03%	-0.03%	-0.02	
9/14/2020	-0.24%	1.53%	-1.77%	-0.81	
9/15/2020	1.70%	0.55%	1.15%	0.52	
9/16/2020	-0.72%	-0.30%	-0.43%	-0.19	
9/17/2020	0.24%	-0.74%	0.99%	0.45	
9/18/2020	-1.22%	-0.89%	-0.33%	-0.15	
9/21/2020	-3.23%	-1.28%	-1.95%	-0.89	
9/22/2020	0.50%	0.95%	-0.44%	-0.20	
9/23/2020	-2.54%	-2.43%	-0.12%	-0.05	
9/24/2020	-1.04%	0.17%	-1.20%	-0.55	
9/25/2020	-1.57%	1.56%	-3.14%	-1.44	
9/28/2020	3.13%	1.66%	1.46%	0.67	
9/29/2020	1.27%	-0.37%	1.64%	0.75	
9/30/2020	-1.02%	0.69%	-1.70%	-0.78	
10/1/2020	-1.03%	0.74%	-1.77%	-0.81	
10/2/2020	-1.30%	-0.78%	-0.52%	-0.24	
10/5/2020	2.84%	1.78%	1.06%	0.48	
10/6/2020	-0.51%	-1.13%	0.62%	0.28	
10/7/2020	-0.26%	1.72%	-1.98%	-0.90	
10/8/2020	1.27%	0.88%	0.40%	0.18	
10/9/2020	2.01%	0.85%	1.16%	0.53	
10/12/2020	0.00%	1.34%	-1.34%	-0.61	

Exhibit-7g

NOK Event Study Results

January 28, 2020 through January 27, 2021

Date	NOK LN Return	NOK Explained Return	NOK Residual Return	*t*-statistic[1]	
10/13/2020	0.25%	-0.52%	0.77%	0.35	
10/14/2020	0.99%	-0.55%	1.53%	0.70	
10/15/2020	-0.99%	-0.04%	-0.95%	-0.43	
10/16/2020	-0.25%	-0.04%	-0.21%	-0.09	
10/19/2020	3.65%	-1.43%	5.08%	2.33	*
10/20/2020	0.48%	0.36%	0.12%	0.05	
10/21/2020	1.89%	-0.33%	2.22%	1.02	
10/22/2020	-0.23%	0.58%	-0.81%	-0.37	
10/23/2020	0.70%	0.40%	0.30%	0.14	
10/26/2020	-1.64%	-1.85%	0.20%	0.09	
10/27/2020	0.24%	-0.33%	0.57%	0.26	
10/28/2020	-4.58%	-3.32%	-1.26%	-0.58	
10/29/2020	-18.98%	0.99%	-19.97%	-9.14	*
10/30/2020	0.60%	-1.24%	1.83%	0.84	
11/2/2020	-3.01%	1.19%	-4.20%	-1.92	
11/3/2020	3.60%	1.92%	1.68%	0.77	
11/4/2020	0.29%	1.84%	-1.54%	-0.71	
11/5/2020	4.04%	2.08%	1.96%	0.90	
11/6/2020	-0.57%	0.06%	-0.63%	-0.29	
11/9/2020	3.63%	1.12%	2.51%	1.15	
11/10/2020	0.55%	-0.01%	0.55%	0.25	
11/11/2020	2.16%	0.85%	1.31%	0.60	
11/12/2020	0.00%	-0.98%	0.98%	0.45	
11/13/2020	1.59%	1.52%	0.07%	0.03	
11/16/2020	2.33%	1.29%	1.05%	0.48	
11/17/2020	0.77%	-0.19%	0.96%	0.44	
11/18/2020	0.25%	-0.92%	1.17%	0.54	
11/19/2020	-1.28%	0.57%	-1.85%	-0.85	
11/20/2020	1.53%	-0.42%	1.95%	0.89	
11/23/2020	0.51%	0.84%	-0.33%	-0.15	
11/24/2020	2.49%	1.54%	0.95%	0.44	
11/25/2020	1.46%	0.02%	1.44%	0.66	
11/27/2020	0.00%	0.42%	-0.42%	-0.19	
11/30/2020	-2.45%	-0.52%	-1.93%	-0.88	
12/1/2020	0.74%	0.97%	-0.23%	-0.10	
12/2/2020	0.00%	0.15%	-0.15%	-0.07	

Exhibit-7g

NOK Event Study Results

January 28, 2020 through January 27, 2021

Date	NOK LN Return	NOK Explained Return	NOK Residual Return	*t*-statistic[1]	
12/3/2020	-0.99%	0.24%	-1.23%	-0.56	
12/4/2020	0.25%	1.03%	-0.78%	-0.36	
12/7/2020	0.74%	-0.00%	0.74%	0.34	
12/8/2020	3.87%	0.44%	3.43%	1.57	
12/9/2020	-0.71%	-0.88%	0.17%	0.08	
12/10/2020	0.24%	0.24%	0.00%	0.00	
12/11/2020	-3.39%	-0.21%	-3.18%	-1.46	
12/14/2020	-1.49%	-0.31%	-1.18%	-0.54	
12/15/2020	2.47%	1.31%	1.16%	0.53	
12/16/2020	-2.72%	0.15%	-2.87%	-1.31	
12/17/2020	1.74%	0.79%	0.95%	0.44	
12/18/2020	-1.49%	-0.13%	-1.35%	-0.62	
12/21/2020	-2.53%	-0.32%	-2.21%	-1.01	
12/22/2020	-0.51%	0.07%	-0.58%	-0.27	
12/23/2020	0.00%	0.13%	-0.13%	-0.06	
12/24/2020	0.26%	0.25%	0.01%	0.00	
12/28/2020	0.26%	0.41%	-0.16%	-0.07	
12/29/2020	0.77%	-0.37%	1.14%	0.52	
12/30/2020	-1.02%	0.32%	-1.34%	-0.61	
12/31/2020	0.51%	0.39%	0.13%	0.06	
1/4/2021	-0.51%	-1.29%	0.77%	0.35	
1/5/2021	3.78%	0.88%	2.91%	1.33	
1/6/2021	0.00%	0.82%	-0.82%	-0.38	
1/7/2021	-1.25%	1.61%	-2.85%	-1.31	
1/8/2021	-1.52%	0.50%	-2.01%	-0.92	
1/11/2021	-1.54%	-0.51%	-1.03%	-0.47	
1/12/2021	3.55%	0.46%	3.09%	1.42	
1/13/2021	-0.75%	0.06%	-0.81%	-0.37	
1/14/2021	2.73%	0.00%	2.72%	1.25	
1/15/2021	-0.24%	-0.78%	0.53%	0.24	
1/19/2021	1.22%	0.81%	0.41%	0.19	
1/20/2021	1.68%	1.17%	0.51%	0.23	
1/21/2021	0.48%	-0.09%	0.57%	0.26	
1/22/2021	-0.48%	-0.14%	-0.33%	-0.15	
1/25/2021	14.39%	0.27%	14.12%	6.46	*
1/26/2021	-2.51%	-0.25%	-2.26%	-1.03	

Exhibit-7g

NOK Event Study Results

January 28, 2020 through January 27, 2021

Date	NOK LN Return	NOK Explained Return	NOK Residual Return	*t*-statistic[1]	
1/27/2021	32.55%	-2.35%	34.91%	15.98	*

Note:
[1] *t*-statistics marked with a "*" are significant at the 95% confidence level.
[2] All returns are logarithmic returns.

Exhibit-7h

TR Event Study Results

January 28, 2020 through January 27, 2021

Date	TR LN Return	TR Explained Return	TR Residual Return	*t*-statistic[1]	
1/28/2020	-1.48%	-0.36%	-1.13%	-0.61	
1/29/2020	-1.15%	-0.33%	-0.82%	-0.45	
1/30/2020	0.97%	2.38%	-1.41%	-0.76	
1/31/2020	0.15%	-1.13%	1.28%	0.69	
2/3/2020	0.93%	0.20%	0.73%	0.39	
2/4/2020	-1.02%	-0.74%	-0.28%	-0.15	
2/5/2020	0.29%	0.58%	-0.29%	-0.16	
2/6/2020	-1.59%	-0.81%	-0.78%	-0.42	
2/7/2020	-1.74%	0.73%	-2.47%	-1.34	
2/10/2020	1.89%	0.41%	1.48%	0.80	
2/11/2020	-1.65%	0.29%	-1.94%	-1.05	
2/12/2020	0.69%	-0.13%	0.82%	0.44	
2/13/2020	1.61%	0.05%	1.56%	0.84	
2/14/2020	0.41%	0.13%	0.28%	0.15	
2/18/2020	1.25%	-0.36%	1.62%	0.88	
2/19/2020	-0.67%	-0.76%	0.09%	0.05	
2/20/2020	2.76%	0.14%	2.62%	1.42	
2/21/2020	-0.54%	-0.09%	-0.46%	-0.25	
2/24/2020	-1.06%	-0.04%	-1.02%	-0.55	
2/25/2020	-0.46%	-0.88%	0.41%	0.22	
2/26/2020	-0.90%	-0.96%	0.05%	0.03	
2/27/2020	-0.82%	-1.72%	0.90%	0.49	
2/28/2020	-5.52%	-1.58%	-3.94%	-2.13	*
3/2/2020	1.79%	2.60%	-0.80%	-0.43	
3/3/2020	0.09%	-0.17%	0.26%	0.14	
3/4/2020	4.35%	2.54%	1.81%	0.98	
3/5/2020	0.38%	-0.39%	0.77%	0.42	
3/6/2020	-2.16%	-0.69%	-1.47%	-0.79	
3/9/2020	-1.38%	-0.93%	-0.46%	-0.25	
3/10/2020	5.05%	0.35%	4.71%	2.55	*
3/11/2020	-4.60%	-2.18%	-2.42%	-1.31	
3/12/2020	-3.50%	-5.31%	1.81%	0.98	
3/13/2020	7.29%	2.84%	4.45%	2.41	*
3/16/2020	-2.95%	-2.19%	-0.75%	-0.41	
3/17/2020	6.01%	5.88%	0.13%	0.07	
3/18/2020	4.11%	-2.75%	6.86%	3.71	*

Exhibit-7h

TR Event Study Results

January 28, 2020 through January 27, 2021

Date	TR LN Return	TR Explained Return	TR Residual Return	*t*-statistic[1]	
3/19/2020	-3.94%	-1.73%	-2.21%	-1.20	
3/20/2020	-1.56%	-1.93%	0.37%	0.20	
3/23/2020	1.76%	-2.83%	4.59%	2.48	*
3/24/2020	-2.73%	3.59%	-6.32%	-3.42	*
3/25/2020	-0.84%	-0.48%	-0.36%	-0.20	
3/26/2020	1.79%	2.45%	-0.66%	-0.36	
3/27/2020	3.76%	0.27%	3.49%	1.89	
3/30/2020	3.28%	3.45%	-0.17%	-0.09	
3/31/2020	-4.30%	-0.67%	-3.63%	-1.96	*
4/1/2020	-0.17%	-0.35%	0.19%	0.10	
4/2/2020	1.90%	1.33%	0.57%	0.31	
4/3/2020	0.41%	1.99%	-1.58%	-0.85	
4/6/2020	2.98%	-0.16%	3.14%	1.70	
4/7/2020	-0.29%	-0.45%	0.16%	0.09	
4/8/2020	-1.90%	-0.43%	-1.47%	-0.80	
4/9/2020	1.45%	1.38%	0.07%	0.04	
4/13/2020	-1.53%	-0.45%	-1.08%	-0.58	
4/14/2020	0.00%	1.57%	-1.57%	-0.85	
4/15/2020	-2.91%	-0.73%	-2.18%	-1.18	
4/16/2020	-0.31%	1.22%	-1.53%	-0.83	
4/17/2020	0.58%	0.07%	0.52%	0.28	
4/20/2020	-2.10%	0.48%	-2.58%	-1.40	
4/21/2020	1.38%	-1.52%	2.90%	1.57	
4/22/2020	1.28%	0.16%	1.11%	0.60	
4/23/2020	-0.69%	-0.85%	0.15%	0.08	
4/24/2020	-1.65%	0.18%	-1.84%	-0.99	
4/27/2020	-0.23%	0.39%	-0.62%	-0.34	
4/28/2020	0.59%	0.90%	-0.31%	-0.17	
4/29/2020	-1.25%	-0.67%	-0.57%	-0.31	
4/30/2020	0.11%	-0.48%	0.60%	0.32	
5/1/2020	-1.66%	-0.68%	-0.99%	-0.53	
5/4/2020	1.98%	-0.97%	2.95%	1.60	
5/5/2020	2.13%	0.17%	1.96%	1.06	
5/6/2020	2.01%	-0.40%	2.41%	1.30	
5/7/2020	-3.83%	-0.27%	-3.56%	-1.93	
5/8/2020	2.98%	1.85%	1.13%	0.61	

Exhibit-7h

TR Event Study Results

January 28, 2020 through January 27, 2021

Date	TR LN Return	TR Explained Return	TR Residual Return	*t*-statistic[1]	
5/11/2020	0.44%	-0.28%	0.72%	0.39	
5/12/2020	-0.74%	0.87%	-1.61%	-0.87	
5/13/2020	-2.17%	-0.09%	-2.08%	-1.13	
5/14/2020	-4.31%	-0.47%	-3.84%	-2.08	*
5/15/2020	-1.78%	0.19%	-1.97%	-1.07	
5/18/2020	2.60%	0.43%	2.16%	1.17	
5/19/2020	-4.20%	-1.47%	-2.73%	-1.48	
5/20/2020	2.99%	-0.15%	3.14%	1.70	
5/21/2020	0.97%	-1.07%	2.04%	1.10	
5/22/2020	-0.97%	0.56%	-1.53%	-0.83	
5/26/2020	1.64%	0.50%	1.14%	0.62	
5/27/2020	1.81%	1.86%	-0.05%	-0.03	
5/28/2020	1.25%	0.65%	0.59%	0.32	
5/29/2020	0.25%	0.83%	-0.57%	-0.31	
6/1/2020	-0.34%	0.38%	-0.72%	-0.39	
6/2/2020	-0.65%	-0.02%	-0.63%	-0.34	
6/3/2020	1.18%	-1.18%	2.36%	1.28	
6/4/2020	-0.65%	-0.15%	-0.50%	-0.27	
6/5/2020	0.87%	0.85%	0.02%	0.01	
6/8/2020	1.75%	1.81%	-0.06%	-0.03	
6/9/2020	0.41%	-0.98%	1.40%	0.76	
6/10/2020	1.14%	-0.57%	1.72%	0.93	
6/11/2020	-3.52%	-2.10%	-1.43%	-0.77	
6/12/2020	-3.91%	0.17%	-4.08%	-2.21	*
6/15/2020	2.31%	0.94%	1.37%	0.74	
6/16/2020	1.50%	1.43%	0.07%	0.04	
6/17/2020	0.11%	0.06%	0.05%	0.03	
6/18/2020	-0.34%	0.34%	-0.68%	-0.37	
6/19/2020	-0.51%	-0.47%	-0.03%	-0.02	
6/22/2020	-2.00%	-0.43%	-1.57%	-0.85	
6/23/2020	-1.19%	-0.55%	-0.65%	-0.35	
6/24/2020	-1.38%	-0.58%	-0.81%	-0.44	
6/25/2020	-0.92%	0.20%	-1.12%	-0.61	
6/26/2020	-2.12%	-0.97%	-1.15%	-0.62	
6/29/2020	2.60%	1.23%	1.36%	0.74	
6/30/2020	2.06%	0.59%	1.48%	0.80	

Exhibit-7h

TR Event Study Results

January 28, 2020 through January 27, 2021

Date	TR LN Return	TR Explained Return	TR Residual Return	*t*-statistic[1]	
7/1/2020	-0.26%	-0.74%	0.48%	0.26	
7/2/2020	0.55%	0.42%	0.14%	0.07	
7/6/2020	-0.88%	-0.04%	-0.84%	-0.45	
7/7/2020	-0.62%	0.39%	-1.00%	-0.54	
7/8/2020	-1.16%	-0.75%	-0.41%	-0.22	
7/9/2020	-1.84%	-1.18%	-0.66%	-0.36	
7/10/2020	2.85%	1.93%	0.92%	0.50	
7/13/2020	-1.58%	0.51%	-2.09%	-1.13	
7/14/2020	2.52%	1.69%	0.83%	0.45	
7/15/2020	0.38%	-0.11%	0.49%	0.27	
7/16/2020	-0.79%	0.69%	-1.48%	-0.80	
7/17/2020	-0.47%	0.67%	-1.14%	-0.62	
7/20/2020	-1.16%	-1.47%	0.31%	0.17	
7/21/2020	-1.20%	1.05%	-2.26%	-1.22	
7/22/2020	-2.23%	0.43%	-2.66%	-1.44	
7/23/2020	0.22%	1.54%	-1.32%	-0.72	
7/24/2020	-4.61%	-0.17%	-4.44%	-2.40	*
7/27/2020	0.64%	0.43%	0.22%	0.12	
7/28/2020	0.54%	0.19%	0.35%	0.19	
7/29/2020	0.95%	0.33%	0.62%	0.34	
7/30/2020	-0.92%	-0.76%	-0.17%	-0.09	
7/31/2020	1.27%	-0.42%	1.69%	0.92	
8/3/2020	-0.41%	0.34%	-0.75%	-0.40	
8/4/2020	0.57%	0.73%	-0.16%	-0.09	
8/5/2020	-2.23%	-0.89%	-1.34%	-0.72	
8/6/2020	-0.65%	0.24%	-0.89%	-0.48	
8/7/2020	2.21%	0.58%	1.63%	0.88	
8/10/2020	-1.02%	0.27%	-1.29%	-0.70	
8/11/2020	0.77%	-0.25%	1.01%	0.55	
8/12/2020	2.42%	0.72%	1.70%	0.92	
8/13/2020	0.25%	-0.01%	0.26%	0.14	
8/14/2020	-0.06%	0.19%	-0.25%	-0.14	
8/17/2020	1.26%	0.30%	0.96%	0.52	
8/18/2020	-1.63%	0.36%	-2.00%	-1.08	
8/19/2020	-0.62%	-0.38%	-0.25%	-0.13	
8/20/2020	-0.22%	-0.15%	-0.07%	-0.04	

Exhibit-7h

TR Event Study Results

January 28, 2020 through January 27, 2021

Date	TR LN Return	TR Explained Return	TR Residual Return	*t*-statistic[1]
8/21/2020	0.09%	-0.05%	0.14%	0.08
8/24/2020	1.43%	0.62%	0.82%	0.44
8/25/2020	0.71%	0.00%	0.71%	0.38
8/26/2020	0.03%	0.01%	0.02%	0.01
8/27/2020	-0.46%	0.26%	-0.72%	-0.39
8/28/2020	-1.08%	-0.29%	-0.79%	-0.43
8/31/2020	-0.44%	0.18%	-0.62%	-0.34
9/1/2020	-1.96%	-0.95%	-1.01%	-0.55
9/2/2020	1.52%	1.01%	0.51%	0.28
9/3/2020	-0.66%	-0.32%	-0.34%	-0.19
9/4/2020	0.66%	0.52%	0.14%	0.08
9/8/2020	-2.16%	-1.88%	-0.28%	-0.15
9/9/2020	0.16%	0.54%	-0.38%	-0.21
9/10/2020	-1.97%	-0.21%	-1.77%	-0.96
9/11/2020	-0.46%	0.35%	-0.81%	-0.44
9/14/2020	1.24%	0.28%	0.96%	0.52
9/15/2020	-0.68%	0.02%	-0.70%	-0.38
9/16/2020	-0.20%	-0.02%	-0.17%	-0.09
9/17/2020	-0.72%	-0.51%	-0.22%	-0.12
9/18/2020	-0.50%	-0.65%	0.16%	0.09
9/21/2020	-1.67%	-0.52%	-1.15%	-0.62
9/22/2020	-0.20%	-0.18%	-0.02%	-0.01
9/23/2020	-1.98%	-1.19%	-0.78%	-0.42
9/24/2020	3.88%	1.19%	2.69%	1.45
9/25/2020	0.86%	0.84%	0.02%	0.01
9/28/2020	0.00%	0.44%	-0.44%	-0.24
9/29/2020	0.49%	-0.26%	0.75%	0.41
9/30/2020	0.88%	1.24%	-0.36%	-0.20
10/1/2020	0.74%	0.42%	0.32%	0.18
10/2/2020	0.93%	0.28%	0.64%	0.35
10/5/2020	-0.03%	0.24%	-0.28%	-0.15
10/6/2020	-0.29%	-0.31%	0.02%	0.01
10/7/2020	0.73%	0.22%	0.52%	0.28
10/8/2020	0.57%	0.30%	0.27%	0.15
10/9/2020	1.01%	0.43%	0.58%	0.31
10/12/2020	0.59%	0.96%	-0.37%	-0.20

Exhibit-7h

TR Event Study Results

January 28, 2020 through January 27, 2021

Date	TR LN Return	TR Explained Return	TR Residual Return	*t*-statistic[1]
10/13/2020	-2.04%	0.27%	-2.31%	-1.25
10/14/2020	-1.70%	0.01%	-1.71%	-0.93
10/15/2020	0.80%	0.58%	0.22%	0.12
10/16/2020	-0.90%	-0.29%	-0.61%	-0.33
10/19/2020	0.39%	-0.42%	0.80%	0.43
10/20/2020	0.32%	-0.46%	0.78%	0.42
10/21/2020	-2.60%	0.04%	-2.64%	-1.43
10/22/2020	0.23%	0.35%	-0.12%	-0.07
10/23/2020	0.43%	0.19%	0.24%	0.13
10/26/2020	-0.79%	-1.13%	0.35%	0.19
10/27/2020	-0.63%	-0.47%	-0.16%	-0.09
10/28/2020	-0.83%	-1.38%	0.54%	0.29
10/29/2020	0.87%	-0.26%	1.12%	0.61
10/30/2020	-0.87%	-0.39%	-0.48%	-0.26
11/2/2020	-0.34%	1.75%	-2.08%	-1.13
11/3/2020	-0.34%	0.13%	-0.47%	-0.25
11/4/2020	-0.37%	-0.95%	0.58%	0.31
11/5/2020	1.04%	0.34%	0.71%	0.38
11/6/2020	2.02%	0.14%	1.88%	1.02
11/9/2020	-3.57%	-0.35%	-3.23%	-1.75
11/10/2020	5.10%	1.50%	3.61%	1.95
11/11/2020	1.38%	0.66%	0.72%	0.39
11/12/2020	-0.67%	-0.18%	-0.49%	-0.27
11/13/2020	2.28%	0.59%	1.70%	0.92
11/16/2020	1.77%	0.91%	0.86%	0.46
11/17/2020	-0.12%	-0.50%	0.38%	0.20
11/18/2020	-2.12%	-0.66%	-1.46%	-0.79
11/19/2020	0.75%	0.07%	0.68%	0.37
11/20/2020	-1.58%	-0.56%	-1.02%	-0.55
11/23/2020	0.19%	0.04%	0.15%	0.08
11/24/2020	1.04%	0.61%	0.43%	0.23
11/25/2020	-1.04%	-0.39%	-0.65%	-0.35
11/27/2020	-0.38%	0.05%	-0.43%	-0.24
11/30/2020	-1.47%	0.21%	-1.69%	-0.91
12/1/2020	0.23%	0.56%	-0.33%	-0.18
12/2/2020	-2.12%	-1.04%	-1.08%	-0.59

Exhibit-7h

TR Event Study Results

January 28, 2020 through January 27, 2021

Date	TR LN Return	TR Explained Return	TR Residual Return	*t*-statistic[1]	
12/3/2020	0.49%	1.03%	-0.53%	-0.29	
12/4/2020	-0.39%	0.55%	-0.94%	-0.51	
12/7/2020	-0.79%	-0.87%	0.08%	0.04	
12/8/2020	0.96%	0.48%	0.47%	0.26	
12/9/2020	-0.82%	0.10%	-0.92%	-0.50	
12/10/2020	-1.16%	-0.54%	-0.63%	-0.34	
12/11/2020	3.36%	0.44%	2.92%	1.58	
12/14/2020	-0.55%	-0.23%	-0.32%	-0.17	
12/15/2020	-2.04%	-0.23%	-1.80%	-0.98	
12/16/2020	-0.90%	-0.35%	-0.55%	-0.30	
12/17/2020	0.50%	0.80%	-0.30%	-0.16	
12/18/2020	0.93%	0.16%	0.77%	0.41	
12/21/2020	0.36%	-0.52%	0.89%	0.48	
12/22/2020	-1.00%	-0.65%	-0.34%	-0.19	
12/23/2020	0.17%	0.90%	-0.73%	-0.40	
12/24/2020	1.22%	0.25%	0.98%	0.53	
12/28/2020	-0.83%	0.22%	-1.04%	-0.56	
12/29/2020	-1.64%	-0.08%	-1.56%	-0.84	
12/30/2020	0.07%	-0.13%	0.20%	0.11	
12/31/2020	0.07%	0.54%	-0.47%	-0.25	
1/4/2021	0.54%	-0.20%	0.74%	0.40	
1/5/2021	2.84%	0.01%	2.83%	1.53	
1/6/2021	1.81%	0.70%	1.11%	0.60	
1/7/2021	-0.90%	-1.13%	0.23%	0.13	
1/8/2021	-1.79%	-0.33%	-1.46%	-0.79	
1/11/2021	-1.76%	-0.90%	-0.85%	-0.46	
1/12/2021	0.30%	-0.63%	0.93%	0.50	
1/13/2021	-0.33%	0.47%	-0.80%	-0.43	
1/14/2021	0.30%	0.65%	-0.35%	-0.19	
1/15/2021	1.03%	0.39%	0.64%	0.35	
1/19/2021	-1.06%	-0.34%	-0.73%	-0.39	
1/20/2021	-0.74%	-0.11%	-0.63%	-0.34	
1/21/2021	-0.40%	-0.59%	0.18%	0.10	
1/22/2021	1.64%	0.44%	1.20%	0.65	
1/25/2021	14.55%	1.47%	13.08%	7.08	*
1/26/2021	9.80%	1.37%	8.43%	4.56	*

Exhibit-7h

TR Event Study Results

January 28, 2020 through January 27, 2021

Date	TR LN Return	TR Explained Return	TR Residual Return	*t*-statistic[1]	
1/27/2021	10.83%	-0.02%	10.85%	5.87	*

Note:
[1] *t*-statistics marked with a "*" are significant at the 95% confidence level.
[2] All returns are logarithmic returns.

Exhibit-7i

TRVG Event Study Results

January 28, 2020 through January 27, 2021

Date	TRVG LN Return	TRVG Explained Return	TRVG Residual Return	*t*-statistic[1]	
1/28/2020	3.44%	0.71%	2.73%	0.63	
1/29/2020	5.84%	-0.56%	6.41%	1.48	
1/30/2020	-3.61%	0.77%	-4.38%	-1.01	
1/31/2020	-3.36%	-1.65%	-1.71%	-0.39	
2/3/2020	0.38%	0.16%	0.22%	0.05	
2/4/2020	2.25%	1.79%	0.45%	0.10	
2/5/2020	3.99%	0.97%	3.02%	0.70	
2/6/2020	-2.16%	-0.21%	-1.95%	-0.45	
2/7/2020	1.09%	-0.89%	1.98%	0.46	
2/10/2020	2.49%	0.37%	2.12%	0.49	
2/11/2020	2.43%	0.50%	1.93%	0.44	
2/12/2020	-10.84%	0.39%	-11.23%	-2.59	*
2/13/2020	-3.89%	-0.29%	-3.60%	-0.83	
2/14/2020	3.51%	-0.04%	3.55%	0.82	
2/18/2020	-8.39%	-0.54%	-7.85%	-1.81	
2/19/2020	-2.53%	0.43%	-2.96%	-0.68	
2/20/2020	3.36%	-0.28%	3.64%	0.84	
2/21/2020	-4.22%	-0.84%	-3.38%	-0.78	
2/24/2020	-8.54%	-3.02%	-5.52%	-1.27	
2/25/2020	-1.42%	-3.27%	1.85%	0.43	
2/26/2020	-8.96%	-0.86%	-8.10%	-1.87	
2/27/2020	-2.11%	-4.09%	1.98%	0.46	
2/28/2020	-3.24%	-1.57%	-1.68%	-0.39	
3/2/2020	0.00%	3.94%	-3.94%	-0.91	
3/3/2020	-0.55%	-2.20%	1.65%	0.38	
3/4/2020	-0.55%	3.60%	-4.15%	-0.96	
3/5/2020	-2.82%	-3.02%	0.20%	0.05	
3/6/2020	-0.57%	-1.91%	1.33%	0.31	
3/9/2020	-18.92%	-8.70%	-10.22%	-2.36	*
3/10/2020	5.41%	3.98%	1.43%	0.33	
3/11/2020	2.60%	-5.21%	7.80%	1.80	
3/12/2020	-7.31%	-10.42%	3.11%	0.72	
3/13/2020	9.22%	7.69%	1.52%	0.35	
3/16/2020	-3.12%	-12.34%	9.22%	2.13	*
3/17/2020	3.13%	5.42%	-2.29%	-0.53	
3/18/2020	-0.64%	-7.12%	6.48%	1.49	

Exhibit-7i

TRVG Event Study Results

January 28, 2020 through January 27, 2021

Date	TRVG LN Return	TRVG Explained Return	TRVG Residual Return	*t*-statistic[1]	
3/19/2020	-5.20%	0.95%	-6.15%	-1.42	
3/20/2020	3.28%	-3.99%	7.27%	1.68	
3/23/2020	-4.62%	-3.18%	-1.44%	-0.33	
3/24/2020	7.80%	8.79%	-0.99%	-0.23	
3/25/2020	3.08%	2.48%	0.60%	0.14	
3/26/2020	-1.83%	5.50%	-7.34%	-1.69	
3/27/2020	-7.03%	-3.21%	-3.82%	-0.88	
3/30/2020	-6.15%	2.39%	-8.54%	-1.97	*
3/31/2020	2.78%	-1.88%	4.66%	1.07	
4/1/2020	-4.20%	-4.61%	0.42%	0.10	
4/2/2020	0.00%	2.09%	-2.09%	-0.48	
4/3/2020	-0.72%	-1.55%	0.84%	0.19	
4/6/2020	2.84%	6.08%	-3.24%	-0.75	
4/7/2020	0.00%	-0.25%	0.25%	0.06	
4/8/2020	11.23%	3.31%	7.92%	1.83	
4/9/2020	3.08%	2.01%	1.07%	0.25	
4/13/2020	-0.61%	-1.42%	0.81%	0.19	
4/14/2020	8.75%	2.44%	6.31%	1.46	
4/15/2020	0.56%	-2.84%	3.40%	0.78	
4/16/2020	-5.13%	0.41%	-5.54%	-1.28	
4/17/2020	-1.18%	2.80%	-3.98%	-0.92	
4/20/2020	-3.00%	-1.82%	-1.19%	-0.27	
4/21/2020	-2.47%	-2.79%	0.33%	0.08	
4/22/2020	4.28%	1.35%	2.93%	0.67	
4/23/2020	0.60%	-0.27%	0.86%	0.20	
4/24/2020	0.59%	1.15%	-0.55%	-0.13	
4/27/2020	2.34%	2.12%	0.22%	0.05	
4/28/2020	1.15%	0.27%	0.88%	0.20	
4/29/2020	2.82%	1.56%	1.26%	0.29	
4/30/2020	1.65%	-2.23%	3.89%	0.90	
5/1/2020	-7.96%	-3.19%	-4.77%	-1.10	
5/4/2020	2.34%	0.24%	2.10%	0.48	
5/5/2020	-4.73%	0.57%	-5.31%	-1.22	
5/6/2020	-3.70%	-0.88%	-2.83%	-0.65	
5/7/2020	1.25%	1.08%	0.17%	0.04	
5/8/2020	6.61%	1.88%	4.73%	1.09	

Exhibit-7i

TRVG Event Study Results

January 28, 2020 through January 27, 2021

Date	TRVG LN Return	TRVG Explained Return	TRVG Residual Return	*t*-statistic[1]	
5/11/2020	-2.35%	-0.41%	-1.95%	-0.45	
5/12/2020	-5.51%	-2.23%	-3.27%	-0.75	
5/13/2020	-2.55%	-1.98%	-0.56%	-0.13	
5/14/2020	-3.95%	0.94%	-4.89%	-1.13	
5/15/2020	-2.72%	0.14%	-2.86%	-0.66	
5/18/2020	13.53%	3.63%	9.89%	2.28	*
5/19/2020	0.00%	-1.38%	1.38%	0.32	
5/20/2020	11.91%	1.05%	10.86%	2.50	*
5/21/2020	-1.08%	-0.99%	-0.09%	-0.02	
5/22/2020	0.00%	-0.03%	0.03%	0.01	
5/26/2020	6.79%	1.59%	5.20%	1.20	
5/27/2020	4.45%	1.80%	2.65%	0.61	
5/28/2020	3.33%	-0.39%	3.72%	0.86	
5/29/2020	-1.89%	0.31%	-2.20%	-0.51	
6/1/2020	0.48%	0.36%	0.12%	0.03	
6/2/2020	4.18%	0.77%	3.41%	0.79	
6/3/2020	3.57%	1.75%	1.82%	0.42	
6/4/2020	1.74%	-0.11%	1.85%	0.43	
6/5/2020	7.87%	2.42%	5.45%	1.26	
6/8/2020	7.30%	1.45%	5.85%	1.35	
6/9/2020	-5.32%	-1.65%	-3.68%	-0.85	
6/10/2020	-7.71%	-0.98%	-6.73%	-1.55	
6/11/2020	-21.06%	-6.34%	-14.72%	-3.39	*
6/12/2020	9.44%	1.29%	8.15%	1.88	
6/15/2020	0.94%	0.92%	0.03%	0.01	
6/16/2020	2.78%	1.62%	1.16%	0.27	
6/17/2020	-3.25%	-0.71%	-2.54%	-0.58	
6/18/2020	2.79%	0.15%	2.64%	0.61	
6/19/2020	-3.74%	-0.74%	-3.00%	-0.69	
6/22/2020	-1.92%	0.43%	-2.35%	-0.54	
6/23/2020	0.97%	0.10%	0.87%	0.20	
6/24/2020	-3.42%	-2.69%	-0.74%	-0.17	
6/25/2020	-2.01%	1.07%	-3.08%	-0.71	
6/26/2020	-2.05%	-1.35%	-0.70%	-0.16	
6/29/2020	2.56%	1.06%	1.50%	0.34	
6/30/2020	-0.51%	1.17%	-1.67%	-0.39	

Exhibit-7i

TRVG Event Study Results

January 28, 2020 through January 27, 2021

Date	TRVG LN Return	TRVG Explained Return	TRVG Residual Return	*t*-statistic[1]	
7/1/2020	-1.53%	-0.32%	-1.22%	-0.28	
7/2/2020	0.00%	0.36%	-0.36%	-0.08	
7/6/2020	-3.67%	1.09%	-4.76%	-1.10	
7/7/2020	1.06%	-1.34%	2.40%	0.55	
7/8/2020	0.00%	0.63%	-0.63%	-0.15	
7/9/2020	-2.14%	-1.02%	-1.12%	-0.26	
7/10/2020	0.54%	0.86%	-0.32%	-0.07	
7/13/2020	-4.40%	-1.01%	-3.38%	-0.78	
7/14/2020	-2.27%	1.35%	-3.62%	-0.83	
7/15/2020	5.04%	1.30%	3.75%	0.86	
7/16/2020	-1.65%	-0.66%	-0.99%	-0.23	
7/17/2020	-1.12%	0.25%	-1.37%	-0.32	
7/20/2020	-0.56%	0.31%	-0.88%	-0.20	
7/21/2020	-2.29%	0.34%	-2.62%	-0.60	
7/22/2020	-1.75%	0.46%	-2.21%	-0.51	
7/23/2020	-1.18%	-0.77%	-0.42%	-0.10	
7/24/2020	-0.60%	-0.86%	0.26%	0.06	
7/27/2020	-1.81%	0.67%	-2.48%	-0.57	
7/28/2020	0.61%	-0.60%	1.21%	0.28	
7/29/2020	8.70%	1.16%	7.54%	1.74	
7/30/2020	2.74%	-0.76%	3.50%	0.81	
7/31/2020	-1.63%	0.15%	-1.78%	-0.41	
8/3/2020	-2.79%	1.04%	-3.82%	-0.88	
8/4/2020	1.68%	0.57%	1.11%	0.26	
8/5/2020	3.28%	0.72%	2.56%	0.59	
8/6/2020	4.21%	-0.42%	4.63%	1.07	
8/7/2020	-5.84%	-0.17%	-5.67%	-1.31	
8/10/2020	2.16%	0.37%	1.79%	0.41	
8/11/2020	6.22%	-0.72%	6.94%	1.60	
8/12/2020	1.00%	1.05%	-0.05%	-0.01	
8/13/2020	-1.50%	-0.37%	-1.13%	-0.26	
8/14/2020	-1.02%	-0.13%	-0.89%	-0.21	
8/17/2020	-3.11%	0.37%	-3.48%	-0.80	
8/18/2020	1.05%	-0.37%	1.42%	0.33	
8/19/2020	-9.27%	-0.60%	-8.67%	-2.00	*
8/20/2020	5.01%	-0.32%	5.33%	1.23	

Exhibit-7i

TRVG Event Study Results

January 28, 2020 through January 27, 2021

Date	TRVG LN Return	TRVG Explained Return	TRVG Residual Return	*t*-statistic[1]
8/21/2020	-0.54%	0.13%	-0.67%	-0.15
8/24/2020	0.54%	0.69%	-0.15%	-0.03
8/25/2020	2.15%	-0.23%	2.38%	0.55
8/26/2020	-1.07%	-0.20%	-0.87%	-0.20
8/27/2020	1.07%	0.55%	0.52%	0.12
8/28/2020	0.00%	0.59%	-0.59%	-0.14
8/31/2020	-2.15%	-0.23%	-1.92%	-0.44
9/1/2020	-1.64%	0.59%	-2.24%	-0.52
9/2/2020	-1.67%	0.55%	-2.23%	-0.51
9/3/2020	3.86%	-3.28%	7.13%	1.64
9/4/2020	-0.54%	-0.42%	-0.12%	-0.03
9/8/2020	-3.88%	-2.54%	-1.34%	-0.31
9/9/2020	0.56%	1.93%	-1.37%	-0.32
9/10/2020	-1.70%	-1.65%	-0.05%	-0.01
9/11/2020	-2.90%	-0.02%	-2.88%	-0.66
9/14/2020	1.75%	1.78%	-0.03%	-0.01
9/15/2020	-1.75%	0.07%	-1.82%	-0.42
9/16/2020	2.90%	-0.03%	2.93%	0.67
9/17/2020	-2.31%	-0.56%	-1.75%	-0.40
9/18/2020	-0.59%	-0.82%	0.24%	0.05
9/21/2020	-4.20%	-1.28%	-2.93%	-0.67
9/22/2020	-0.62%	0.41%	-1.02%	-0.24
9/23/2020	-5.06%	-2.46%	-2.61%	-0.60
9/24/2020	0.00%	-0.01%	0.01%	0.00
9/25/2020	0.00%	1.39%	-1.39%	-0.32
9/28/2020	3.20%	1.60%	1.59%	0.37
9/29/2020	-1.27%	-0.88%	-0.39%	-0.09
9/30/2020	-1.28%	0.69%	-1.97%	-0.45
10/1/2020	-4.62%	0.42%	-5.04%	-1.16
10/2/2020	-4.14%	-0.55%	-3.59%	-0.83
10/5/2020	-0.71%	1.63%	-2.34%	-0.54
10/6/2020	-0.71%	-1.08%	0.36%	0.08
10/7/2020	0.71%	1.86%	-1.15%	-0.27
10/8/2020	4.17%	0.45%	3.71%	0.86
10/9/2020	-1.37%	0.62%	-1.99%	-0.46
10/12/2020	0.69%	0.59%	0.10%	0.02

Exhibit-7i

TRVG Event Study Results

January 28, 2020 through January 27, 2021

Date	TRVG LN Return	TRVG Explained Return	TRVG Residual Return	*t*-statistic[1]	
10/13/2020	0.68%	-0.77%	1.45%	0.34	
10/14/2020	2.02%	-0.69%	2.71%	0.62	
10/15/2020	-4.78%	0.01%	-4.79%	-1.10	
10/16/2020	0.00%	-0.31%	0.31%	0.07	
10/19/2020	1.39%	-1.39%	2.78%	0.64	
10/20/2020	-0.69%	-0.09%	-0.60%	-0.14	
10/21/2020	1.38%	-1.31%	2.69%	0.62	
10/22/2020	-0.69%	0.44%	-1.13%	-0.26	
10/23/2020	3.39%	-0.12%	3.51%	0.81	
10/26/2020	-9.07%	-1.68%	-7.38%	-1.70	
10/27/2020	2.88%	-0.87%	3.75%	0.86	
10/28/2020	-5.84%	-2.89%	-2.95%	-0.68	
10/29/2020	2.23%	0.20%	2.03%	0.47	
10/30/2020	-0.74%	-1.50%	0.76%	0.18	
11/2/2020	-6.11%	1.34%	-7.45%	-1.72	
11/3/2020	0.78%	1.77%	-0.99%	-0.23	
11/4/2020	-2.37%	0.66%	-3.04%	-0.70	
11/5/2020	0.80%	2.03%	-1.24%	-0.29	
11/6/2020	3.13%	-0.09%	3.21%	0.74	
11/9/2020	18.23%	1.60%	16.63%	3.83	*
11/10/2020	-3.92%	0.19%	-4.11%	-0.95	
11/11/2020	-5.48%	0.60%	-6.08%	-1.40	
11/12/2020	-3.58%	-1.25%	-2.34%	-0.54	
11/13/2020	2.17%	1.17%	1.00%	0.23	
11/16/2020	1.42%	1.27%	0.15%	0.03	
11/17/2020	2.78%	-0.11%	2.89%	0.67	
11/18/2020	0.00%	-0.98%	0.98%	0.23	
11/19/2020	2.70%	0.39%	2.32%	0.53	
11/20/2020	-0.67%	-0.40%	-0.27%	-0.06	
11/23/2020	13.77%	0.93%	12.84%	2.96	*
11/24/2020	22.90%	1.12%	21.78%	5.02	*
11/25/2020	4.55%	-0.10%	4.65%	1.07	
11/27/2020	7.28%	0.09%	7.19%	1.66	
11/30/2020	-9.99%	-0.56%	-9.42%	-2.17	*
12/1/2020	-5.64%	0.41%	-6.04%	-1.39	
12/2/2020	7.89%	-0.27%	8.16%	1.88	

Exhibit-7i

TRVG Event Study Results

January 28, 2020 through January 27, 2021

Date	TRVG LN Return	TRVG Explained Return	TRVG Residual Return	*t*-statistic[1]	
12/3/2020	-3.17%	0.32%	-3.49%	-0.81	
12/4/2020	2.73%	1.18%	1.55%	0.36	
12/7/2020	-1.35%	-0.30%	-1.05%	-0.24	
12/8/2020	-0.46%	0.47%	-0.93%	-0.21	
12/9/2020	-1.38%	-0.88%	-0.50%	-0.12	
12/10/2020	15.42%	0.23%	15.18%	3.50	*
12/11/2020	-6.98%	-0.36%	-6.62%	-1.53	
12/14/2020	2.11%	-0.39%	2.50%	0.58	
12/15/2020	3.68%	1.32%	2.36%	0.54	
12/16/2020	-6.21%	0.04%	-6.25%	-1.44	
12/17/2020	-6.17%	0.98%	-7.15%	-1.65	
12/18/2020	0.45%	-0.35%	0.81%	0.19	
12/21/2020	-2.75%	-0.44%	-2.31%	-0.53	
12/22/2020	-0.93%	0.23%	-1.17%	-0.27	
12/23/2020	3.23%	-0.07%	3.30%	0.76	
12/24/2020	0.00%	0.12%	-0.12%	-0.03	
12/28/2020	-1.37%	-0.30%	-1.07%	-0.25	
12/29/2020	0.00%	-0.45%	0.45%	0.10	
12/30/2020	3.62%	0.58%	3.04%	0.70	
12/31/2020	7.28%	0.13%	7.15%	1.65	
1/4/2021	-6.40%	-1.41%	-4.99%	-1.15	
1/5/2021	0.88%	0.78%	0.10%	0.02	
1/6/2021	-4.01%	1.18%	-5.19%	-1.20	
1/7/2021	1.80%	1.23%	0.57%	0.13	
1/8/2021	4.79%	0.30%	4.49%	1.04	
1/11/2021	-1.28%	-0.12%	-1.17%	-0.27	
1/12/2021	-0.87%	0.73%	-1.60%	-0.37	
1/13/2021	-1.75%	-0.13%	-1.63%	-0.37	
1/14/2021	-1.34%	0.20%	-1.53%	-0.35	
1/15/2021	-3.19%	-1.35%	-1.84%	-0.42	
1/19/2021	-0.46%	0.10%	-0.57%	-0.13	
1/20/2021	-1.88%	0.34%	-2.21%	-0.51	
1/21/2021	3.26%	-0.46%	3.72%	0.86	
1/22/2021	0.46%	-0.45%	0.91%	0.21	
1/25/2021	-0.46%	0.04%	-0.50%	-0.12	
1/26/2021	-3.74%	-0.76%	-2.98%	-0.69	

Exhibit-7i

TRVG Event Study Results

January 28, 2020 through January 27, 2021

Date	TRVG LN Return	TRVG Explained Return	TRVG Residual Return	*t*-statistic[1]	
1/27/2021	41.81%	-2.21%	44.02%	10.14	*

Note:
[1] *t*-statistics marked with a "*" are significant at the 95% confidence level.
[2] All returns are logarithmic returns.

Exhibit-8

Affected Companies' News Frequency Table

January 28, 2020 through January 27, 2021

	No. of News Articles Published								
Date	**AMC**	**BB**	**BBBY**	**EXPR**	**GME**	**KOSS**	**NOK**	**TR**	**TRVG**
1/28/2020	0	0	1	0	0	0	24	0	0
1/29/2020	1	0	3	0	0	0	16	0	0
1/30/2020	1	1	3	0	2	3	16	0	0
1/31/2020	2	1	4	0	1	0	30	0	1
2/3/2020	1	17	6	1	3	0	36	1	0
2/4/2020	0	27	7	0	0	0	11	0	0
2/5/2020	0	10	4	0	0	0	25	0	0
2/6/2020	2	5	9	0	1	0	99	0	0
2/7/2020	0	2	1	1	0	0	67	0	0
2/10/2020	2	3	4	2	1	0	39	1	1
2/11/2020	1	2	22	1	0	0	24	0	4
2/12/2020	2	1	36	0	1	0	52	1	4
2/13/2020	0	0	8	1	2	0	28	0	1
2/14/2020	0	0	3	0	0	0	21	0	1
2/18/2020	3	1	32	0	1	0	36	0	0
2/19/2020	5	2	19	0	1	0	35	0	0
2/20/2020	1	2	6	0	0	0	23	0	0
2/21/2020	1	4	0	0	0	0	8	0	0
2/24/2020	3	3	28	0	2	1	22	0	0
2/25/2020	4	2	4	1	0	0	20	0	0
2/26/2020	1	0	1	1	0	0	32	0	0
2/27/2020	14	2	21	0	1	0	36	0	0
2/28/2020	3	1	9	0	0	0	16	0	0
3/2/2020	3	2	8	0	0	0	108	0	0
3/3/2020	13	5	2	0	0	0	44	0	0
3/4/2020	5	2	10	1	0	0	38	0	0
3/5/2020	5	0	5	0	0	0	43	0	0
3/6/2020	5	0	4	1	1	0	27	0	8
3/9/2020	14	2	4	2	9	0	31	1	1
3/10/2020	3	2	1	0	5	0	37	0	0
3/11/2020	1	0	2	14	2	0	15	0	0
3/12/2020	13	4	2	7	15	1	20	1	0
3/13/2020	15	1	1	1	5	0	16	0	0
3/16/2020	35	1	6	2	6	1	17	1	2
3/17/2020	35	0	4	7	4	0	33	0	0
3/18/2020	20	3	2	0	3	1	36	0	0
3/19/2020	9	2	10	0	7	0	28	0	0
3/20/2020	8	2	9	1	16	0	36	1	0
3/23/2020	3	4	24	1	23	0	26	0	7
3/24/2020	8	1	0	0	1	0	29	0	0
3/25/2020	9	6	3	0	1	0	27	0	0
3/26/2020	3	3	2	2	23	0	9	0	0
3/27/2020	4	3	6	6	11	0	8	0	0
3/30/2020	4	0	3	0	4	0	14	0	6
3/31/2020	1	13	1	0	1	0	21	0	0
4/1/2020	7	9	1	10	0	0	20	0	0
4/2/2020	11	5	14	1	0	0	4	0	1
4/3/2020	1	0	10	4	1	0	7	0	0
4/6/2020	8	4	6	0	3	1	16	0	0

Exhibit-8

Affected Companies' News Frequency Table

January 28, 2020 through January 27, 2021

	No. of News Articles Published								
Date	**AMC**	**BB**	**BBBY**	**EXPR**	**GME**	**KOSS**	**NOK**	**TR**	**TRVG**
4/7/2020	4	5	3	0	1	0	22	0	0
4/8/2020	9	2	5	0	0	0	14	0	0
4/9/2020	12	2	2	0	0	0	13	0	0
4/13/2020	15	0	4	0	12	0	16	0	1
4/14/2020	11	2	3	1	6	0	9	0	0
4/15/2020	8	1	35	1	1	4	31	0	0
4/16/2020	10	0	33	0	0	0	19	0	0
4/17/2020	28	2	10	1	3	0	11	0	0
4/20/2020	21	2	11	0	5	0	22	1	7
4/21/2020	1	1	10	8	10	2	14	0	0
4/22/2020	3	2	5	1	7	0	13	3	0
4/23/2020	3	0	9	0	1	0	14	0	0
4/24/2020	5	0	11	1	0	0	3	1	0
4/27/2020	4	0	16	0	3	0	12	0	2
4/28/2020	17	0	5	0	5	0	56	1	0
4/29/2020	31	1	4	1	0	0	27	1	0
4/30/2020	15	1	13	1	0	0	102	0	1
5/1/2020	6	1	12	0	0	0	15	0	0
5/4/2020	2	0	10	6	2	0	21	0	0
5/5/2020	1	1	3	1	0	0	27	0	0
5/6/2020	0	1	1	0	1	0	27	0	0
5/7/2020	2	1	4	0	1	1	21	0	3
5/8/2020	1	1	11	1	0	1	12	0	1
5/11/2020	33	7	9	0	2	0	7	0	0
5/12/2020	10	2	2	0	0	0	25	0	0
5/13/2020	2	1	10	0	0	0	20	0	2
5/14/2020	1	6	16	0	1	0	27	0	0
5/15/2020	1	4	4	0	1	0	16	0	0
5/18/2020	2	0	8	0	6	0	23	0	15
5/19/2020	0	4	5	0	4	1	22	0	5
5/20/2020	0	1	3	0	5	0	23	0	7
5/21/2020	2	0	7	0	5	0	27	0	6
5/22/2020	2	2	23	0	0	0	16	0	0
5/26/2020	2	4	19	0	9	0	29	0	0
5/27/2020	12	1	5	2	4	0	24	0	5
5/28/2020	1	1	5	0	1	0	24	0	0
5/29/2020	2	0	7	0	1	0	14	0	0
6/1/2020	1	6	21	3	5	0	29	1	0
6/2/2020	2	7	4	0	5	0	25	0	0
6/3/2020	46	9	5	15	4	0	37	0	9
6/4/2020	30	4	6	1	16	0	17	0	0
6/5/2020	13	2	2	0	9	0	13	0	0
6/8/2020	7	2	10	0	0	0	11	0	0
6/9/2020	30	4	5	0	22	0	21	0	1
6/10/2020	18	4	8	1	8	0	32	0	1
6/11/2020	15	3	8	0	2	0	48	0	5
6/12/2020	7	2	8	1	13	2	17	0	0
6/15/2020	6	7	6	0	5	0	50	0	3
6/16/2020	2	8	7	1	0	0	39	0	2

Exhibit-8

Affected Companies' News Frequency Table

January 28, 2020 through January 27, 2021

	No. of News Articles Published								
Date	**AMC**	**BB**	**BBBY**	**EXPR**	**GME**	**KOSS**	**NOK**	**TR**	**TRVG**
6/17/2020	8	4	4	0	0	0	34	0	0
6/18/2020	21	3	2	0	3	0	43	0	0
6/19/2020	44	2	6	0	0	0	15	0	0
6/22/2020	26	7	17	0	1	1	48	0	0
6/23/2020	3	8	6	0	1	0	40	0	0
6/24/2020	12	20	2	0	0	0	36	0	0
6/25/2020	4	17	2	0	1	0	40	0	0
6/26/2020	3	4	6	0	3	0	13	0	0
6/29/2020	25	2	7	0	1	0	25	0	0
6/30/2020	16	0	7	1	1	0	20	1	0
7/1/2020	4	2	3	0	0	0	22	0	0
7/2/2020	0	3	2	0	4	0	18	0	0
7/6/2020	3	4	14	0	2	0	52	0	1
7/7/2020	6	0	10	0	1	0	35	0	0
7/8/2020	14	2	36	0	2	0	39	0	1
7/9/2020	7	3	45	1	2	0	32	0	0
7/10/2020	6	5	23	10	2	0	12	0	0
7/13/2020	16	2	20	0	1	0	27	0	0
7/14/2020	3	1	14	1	1	0	43	0	0
7/15/2020	2	0	4	0	0	0	19	0	0
7/16/2020	2	6	5	0	0	0	16	0	0
7/17/2020	1	1	6	0	6	0	9	0	0
7/20/2020	4	1	9	1	3	0	35	1	4
7/21/2020	6	0	12	0	1	1	49	0	3
7/22/2020	4	3	5	2	1	0	25	0	0
7/23/2020	24	2	6	0	1	3	13	2	0
7/24/2020	10	0	5	1	0	0	17	0	6
7/27/2020	5	1	6	0	0	1	28	1	2
7/28/2020	19	4	6	0	0	0	25	0	1
7/29/2020	16	2	5	0	0	0	24	0	4
7/30/2020	8	2	1	0	1	0	22	0	7
7/31/2020	9	1	4	0	1	0	78	0	0
8/3/2020	15	6	15	0	0	0	43	0	0
8/4/2020	4	4	2	5	0	0	40	0	0
8/5/2020	4	0	0	1	0	0	30	1	0
8/6/2020	16	0	2	0	0	0	16	0	0
8/7/2020	12	0	1	0	0	0	14	0	0
8/10/2020	10	0	10	1	0	0	20	0	0
8/11/2020	0	0	8	0	0	0	40	0	7
8/12/2020	5	0	4	1	0	0	23	0	0
8/13/2020	29	0	3	1	0	0	13	0	1
8/14/2020	15	1	2	0	0	0	8	0	0
8/17/2020	9	3	4	0	1	0	31	0	1
8/18/2020	3	1	0	0	0	0	29	0	0
8/19/2020	4	20	0	1	1	0	26	0	0
8/20/2020	11	21	3	1	2	2	34	0	0
8/21/2020	10	7	2	0	0	1	16	0	0
8/24/2020	6	7	3	2	1	0	16	0	0
8/25/2020	0	5	14	0	0	0	26	0	0

Exhibit-8

Affected Companies' News Frequency Table

January 28, 2020 through January 27, 2021

	No. of News Articles Published								
Date	**AMC**	**BB**	**BBBY**	**EXPR**	**GME**	**KOSS**	**NOK**	**TR**	**TRVG**
8/26/2020	7	1	10	13	2	0	23	0	0
8/27/2020	8	6	5	4	0	0	15	0	0
8/28/2020	6	3	3	0	2	0	14	0	1
8/31/2020	13	5	8	1	12	0	10	0	0
9/1/2020	14	11	3	1	4	0	18	1	0
9/2/2020	20	5	4	2	2	0	12	0	0
9/3/2020	7	2	4	1	0	0	25	0	0
9/4/2020	8	6	2	2	0	0	16	0	0
9/8/2020	9	8	10	0	2	1	49	0	0
9/9/2020	4	5	4	2	18	0	28	0	0
9/10/2020	3	2	10	0	11	0	22	0	0
9/11/2020	9	0	5	0	5	0	8	0	0
9/14/2020	4	3	12	0	14	0	37	0	2
9/15/2020	0	2	2	0	0	0	35	1	0
9/16/2020	0	5	4	0	6	0	27	0	1
9/17/2020	0	1	6	4	4	0	16	0	0
9/18/2020	1	1	8	1	1	0	9	0	0
9/21/2020	3	3	18	1	8	1	26	0	0
9/22/2020	4	13	26	1	18	0	34	0	0
9/23/2020	1	6	14	1	2	0	32	1	0
9/24/2020	9	18	16	0	4	0	29	0	0
9/25/2020	3	7	5	0	0	0	21	0	0
9/28/2020	1	0	16	0	0	0	18	0	0
9/29/2020	1	1	11	1	0	0	58	0	0
9/30/2020	8	4	5	0	1	0	41	0	0
10/1/2020	15	4	61	0	1	0	17	0	0
10/2/2020	7	5	22	3	0	0	20	0	1
10/5/2020	26	2	3	2	1	0	22	0	0
10/6/2020	20	7	12	0	1	0	22	0	0
10/7/2020	8	6	3	0	0	1	34	0	0
10/8/2020	9	7	6	2	24	0	32	0	2
10/9/2020	5	3	1	0	11	0	48	0	0
10/12/2020	8	1	4	1	5	0	51	0	0
10/13/2020	27	1	20	1	4	0	41	0	1
10/14/2020	14	5	24	0	4	0	37	0	0
10/15/2020	2	1	6	1	3	0	41	0	0
10/16/2020	2	3	6	0	1	0	14	0	0
10/19/2020	27	5	9	0	1	1	90	0	0
10/20/2020	30	2	2	0	0	0	50	1	0
10/21/2020	9	1	5	0	0	1	66	0	0
10/22/2020	2	2	10	1	1	0	27	0	0
10/23/2020	4	2	2	0	1	0	19	0	2
10/26/2020	5	0	12	1	3	0	33	0	1
10/27/2020	7	3	6	0	0	0	29	0	0
10/28/2020	2	2	32	0	0	0	28	0	0
10/29/2020	4	1	22	0	1	2	92	0	0
10/30/2020	2	0	5	0	2	0	21	0	1
11/2/2020	30	1	12	1	1	0	26	0	5
11/3/2020	13	1	3	0	1	0	23	0	2

Exhibit-8

Affected Companies' News Frequency Table

January 28, 2020 through January 27, 2021

	No. of News Articles Published								
Date	**AMC**	**BB**	**BBBY**	**EXPR**	**GME**	**KOSS**	**NOK**	**TR**	**TRVG**
11/4/2020	6	0	3	0	2	0	25	0	9
11/5/2020	3	5	3	0	0	0	27	0	0
11/6/2020	3	0	3	0	1	0	8	0	0
11/9/2020	16	2	6	0	7	0	36	0	0
11/10/2020	15	1	3	0	7	0	25	0	1
11/11/2020	5	2	3	1	7	0	18	1	0
11/12/2020	6	4	7	3	3	0	23	0	4
11/13/2020	3	0	6	0	1	0	14	0	0
11/16/2020	11	3	6	0	7	1	20	0	1
11/17/2020	3	6	4	0	13	0	28	0	0
11/18/2020	3	4	6	0	1	0	35	0	0
11/19/2020	1	6	2	0	2	0	19	0	0
11/20/2020	3	0	8	0	3	0	10	0	0
11/23/2020	5	2	10	0	2	0	20	0	0
11/24/2020	3	2	4	3	3	0	28	0	1
11/25/2020	2	3	9	1	8	0	32	0	2
11/27/2020	0	2	17	0	5	0	38	0	0
11/30/2020	5	2	18	0	12	0	31	0	7
12/1/2020	0	36	1	3	0	0	43	0	0
12/2/2020	0	13	1	0	1	0	31	0	0
12/3/2020	22	3	3	20	1	0	23	0	0
12/4/2020	16	4	3	2	5	0	13	0	0
12/7/2020	4	2	9	0	2	2	42	0	0
12/8/2020	3	2	3	0	23	0	44	0	1
12/9/2020	2	2	5	0	13	0	43	0	0
12/10/2020	3	2	2	1	3	0	36	0	1
12/11/2020	23	6	5	1	1	0	15	0	0
12/14/2020	16	3	26	1	4	0	42	0	0
12/15/2020	3	5	4	0	0	0	35	1	0
12/16/2020	4	3	6	1	0	1	45	0	0
12/17/2020	2	17	2	0	1	0	35	0	0
12/18/2020	3	13	5	0	0	0	16	0	0
12/21/2020	4	11	11	1	2	0	23	1	0
12/22/2020	1	1	2	2	6	0	22	0	0
12/23/2020	2	2	3	0	2	0	18	0	0
12/24/2020	0	2	3	0	3	0	11	0	0
12/28/2020	4	2	7	1	5	0	25	0	0
12/29/2020	1	1	5	0	0	1	16	0	0
12/30/2020	8	0	2	2	0	0	15	0	0
12/31/2020	5	4	5	1	2	0	7	0	0
1/4/2021	3	5	14	1	3	0	18	0	0
1/5/2021	3	1	9	1	2	0	19	0	0
1/6/2021	4	2	10	0	1	0	25	0	0
1/7/2021	3	1	53	0	2	0	14	0	0
1/8/2021	4	0	17	1	3	0	9	0	1
1/11/2021	1	1	5	2	44	0	27	0	8
1/12/2021	3	3	9	0	3	0	23	0	0
1/13/2021	4	2	3	1	15	0	36	0	5
1/14/2021	3	6	5	13	20	0	51	0	0

Exhibit-8

Affected Companies' News Frequency Table

January 28, 2020 through January 27, 2021

	No. of News Articles Published								
Date	**AMC**	**BB**	**BBBY**	**EXPR**	**GME**	**KOSS**	**NOK**	**TR**	**TRVG**
1/15/2021	2	14	3	1	12	0	19	0	1
1/19/2021	11	24	44	3	20	0	29	0	1
1/20/2021	3	7	23	1	7	0	21	1	0
1/21/2021	6	4	9	1	63	1	17	0	0
1/22/2021	12	4	4	2	50	0	14	0	0
1/25/2021	57	42	28	10	120	8	29	1	0
1/26/2021	26	30	28	8	6	5	32	0	0
1/27/2021	66	28	39	50	281	58	67	5	0
Totals:	**2081**	**999**	**2210**	**332**	**1380**	**112**	**6955**	**35**	**213**

Sources: Factiva